

20010810.qrp v02_n277.qrl.20010810

Date: Fri, 10 Aug 2001 19:03:08 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2277

QRP-L Digest 2277

Topics covered in this issue include:

- 1) [104504] re: K5DI dipole
by "Karl F. Larsen" <k5di@zianet.com>
- 2) [104505] [CONTEST]QRP Contest Calendar - Aug 9/31
by Ken Newman <N2CQ@citnet.com>
- 3) [104506] QRP Wattmeter - info needed
by "Mike Golini" <mgolini@home.com>
- 4) [104507] KB9YIG cub fox log 8/7
by "Tony Parks" <robert.parks11@gte.net>
- 5) [104508] Elecraft K2 FOR SALE
by <bpwebb@mastnet.net>
- 6) [104509] Where to find a 40673
by anthony@pacinfosb.com
- 7) [104510] re: K5DI dipole
by "Steve Ray" <sbralr@worldnet.att.net>
- 8) [104511] FOX Ready to Run :-)
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 9) [104512] Why we read the manual first
by David J Adams <david@theadamsclan.com>
- 10) [104513] DCTL resonance
by ARDUJENSKI@aol.com
- 11) [104514] FOX Tonight's Fox stations STRONG!
by "Karl F. Larsen" <k5di@zianet.com>
- 12) [104515] Re: FOX Tonight's Fox stations STRONG!
by "Rod Cerkoney, N0RC" <rod@n0rc.com>
- 13) [104516] Re: UPS deal at Office Max? Not in Dallas!
by mugglesto@ecentral.com
- 14) [104517] Resonant Antenna's
by "Karl F. Larsen" <k5di@zianet.com>
- 15) [104518] FB 40 Kit
by "Gene Sailsbury" <gsailsbury@mobil1.net>
- 16) [104519] FOX: What a difference a few weeks makes
by "Rod Cerkoney, N0RC" <rod@n0rc.com>
- 17) [104520] Re: FOX: What a difference a few weeks makes
by Todd Enders <enders@bolshoi.cc.misu.nodak.edu>
- 18) [104521] First run w/ hounds
by Frank Brickle <brickle@pobox.com>
- 19) [104522] K0EVZ FOX--Whew :-)

by "Wilford D. Lindsey" <70511.3041@compuserve.com>
20) [104523] FOX - N5IB after action report
by n5ib@juno.com
21) [104524] Re: FOX: What a difference a few weeks makes
by N0tk@aol.com
22) [104525] My first Pelt in the "Big" hunt.
by Dragon Singer <WM-Scace@wiu.edu>
23) [104526] Re: FOX - N5IB after action report
by "George, W5YR" <w5yr@att.net>
24) [104527] Info Wanted?
by Jfelts202@aol.com
25) [104528] Logging Software?
by Jfelts202@aol.com
26) [104529] Re: Logging Software?
by "Stephane Collas" <Stephane.Collas@wanadoo.fr>
27) [104530] Re: Info Wanted?
by Pete Burbank <plburbank@kih.net>
28) [104531] Source for 88 mh toroid?
by Bill Meara <n2cqr@clix.pt>
29) [104532] Re: Logging Software?
by "Chuck Carpenter" <w5usj@globeco.net>
30) [104533] Simple Glowbug for 80/40
by "Bruce & Tosh Hopkins" <makai@makai.org>
31) [104534] Re: Logging Software?
by "E. Roswell" <eroswell@monmouth.com>
32) [104535] Re: First run w/ hounds
by "Karl F. Larsen" <k5di@zianet.com>
33) [104536] First hunt, first pelts!
by Stephan Greene <sgreene@patriot.net>
34) [104537] T4XB Mic plug-part number
by David Shalita <davidr@cnmnetwork.com>
35) [104538] Info Wanted: 6L6 schematic
by "AI2Q Alex" <ai2q@adelphia.net>
36) [104539] RE: Source for 88 mh toroid?
by "AI2Q Alex" <ai2q@adelphia.net>
37) [104540] RE: Logging Software
by "David Ek" <ekdave@earthlink.net>
38) [104541] PSK31 trouble - PC Noise
by David Shalita <davidr@cnmnetwork.com>
39) [104542] PSK31 software
by David Shalita <davidr@cnmnetwork.com>
40) [104543] Looking for half-square/bobtail info
by "Bill Jones" <kd7s@psnw.com>
41) [104544] For Sale NC-20
by "Hartwell, Martin E, NLCIO" <mehartwell@att.com>
42) [104545] Fw: #60 conf. SV1CQN !!!!!!!
by "George Osier" <gosier@twcny.rr.com>
43) [104546] Construction, Coil Winding 101

by John R Kirby <n3aaz-qrp@juno.com>
44) [104547] Re: Source for 88 mh toroid?
by lhlousek <lhlousek@nvhbell.net>
45) [104548] Hot Tweezers for SM Work
by "Ed Manuel (N5EM)" <n5em@flash.net>
46) [104549] Manhattan-Style Homebrew Kit
by "Tom Curtola" <tcurtola@home.com>
47) [104550] Re: K0EVZ FOX--Whew :-)
by Bruce Rattray <rattray@gpfn.sk.ca>
48) [104551] Heads-up - Cabelas 14' Panfish Pole (long)
by David Gauding <david.gauding@bbs.galilei.com>
49) [104552] Re: T4XB Mic plug-part number
by "George, W5YR" <w5yr@att.net>
50) [104553] Re: T4XB Mic plug-part number
by "Richard Brummer, K2JQ" <k2jq@bestweb.net>
51) [104554] Re: Manhattan-Style Homebrew Kit
by "Delbert Long" <delbert@gmcompliance.com>
52) [104555] FOX - N5IB preliminary log
by n5ib@juno.com
53) [104556] Re: Heads-up - Cabelas 14' Panfish Pole (long)
by n2cx@voicenet.com
54) [104557] 20 Meter VFO Questions
by "Dennis Payton" <dpayton@fwi.com>
55) [104558] Re: 20 Meter VFO Questions
by "Bill Jones" <kd7s@psnw.com>
56) [104559] RE: Hot Tweezers for SM Work
by "Ed Tanton N4XY" <n4xy@att.net>
57) [104560] Re: 20 Meter VFO Questions
by Bruce Muscolino <w6toy@erols.com>
58) [104561] Re: 20 Meter VFO Questions
by lhlousek <lhlousek@nvhbell.net>
59) [104562] Re: 20 Meter VFO Questions
by "George, W5YR" <w5yr@att.net>
60) [104563] Re: Heads-up - Cabelas 14' Panfish Pole
by "Tom Dufresne" <tdufres@hotmail.com>
61) [104564] Alaska Propagation: AL7FS
by Jim Larsen AL7FS <AL7FS@pobox.alaska.net>
62) [104565] WTS NOS Amphenol UG/603U connectors (RG-59, solder type N
connectors)
by wb4mnf@atl.org
63) [104566] Re: 20 Meter VFO Questions
by "Paul Harden, NA5N" <na5n@rt66.com>
64) [104567] Re: T4XB Mic plug-part number
by Al Scanandoah <k2zn@rochester.rr.com>
65) [104568] Ameco AC-1
by "Rob Matherly" <kc0bom@yahoo.com>
66) [104569] Trials and tribulations of Bumblebee #6
by "Mark J. Dulcey" <mark@buttery.org>

- 67) [104570] Black Widow filshing pole
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
- 68) [104571] Re: Source for 88 mh toroid?
by "G3MFJ" <g3mfj@btinternet.com>
- 69) [104572] Re: T4XB Mic plug-part number
by William R Colbert <w5xe@juno.com>
- 70) [104573] Re: Antenna feed line length?
by Bill Coleman <aa4lr@arrl.net>
- 71) [104574] Stable 20 Meter VFO Questions
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
- 72) [104575] Re: PSK31 trouble - PC Noise
by adamvaz@palm.net (Adam Vazquez)
- 73) [104576] Re: 20 Meter VFO Questions
by David Newkirk <dpnewkirk@home.com>
- 74) [104577] Re: Stable 20 Meter VFO Questions
by "George, W5YR" <w5yr@att.net>
- 75) [104578] Best Method Securing MFJ 33ft Mast?
by adamvaz@palm.net (Adam Vazquez)
- 76) [104579] RE: T4XB Mic Plug-Part Number
by W2SH@aol.com
- 77) [104580] FS QRP + MFJ 971 tunner
by "Francis Callahan" <colcal@srv.net>
- 78) [104581] RE: Power radiated from a dummy load
by "Brian B. Riley, N1BQ" <n1bq@wulfdn.org>
- 79) [104582] Re: 20 Meter VFO Questions
by "Steven Weber" <kd1jv@moose.ncia.net>
- 80) [104583] Re: Best Method Securing MFJ 33ft Mast?
by David Gauding <david.gauding@bbs.galilei.com>
- 81) [104584] Re: Stable 20 Meter VFO Questions
by George Franklin <w0av@juno.com>
- 82) [104585] Re: Best Method Securing MFJ 33ft Mast?
by ARDUJENSKI@aol.com
- 83) [104586] Poqet Plus
by Blair Goodlin <bgoodlinjr@yahoo.com>
- 84) [104587] All band dipole work
by "Karl F. Larsen" <k5di@zianet.com>
- 85) [104588] New QQ is out!!
by "Brian Murrey" <brian@iquest.net>

Date: Thu, 9 Aug 2001 17:19:12 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: "Draper, Bruce L" <draperbl@sandia.gov>
Cc: <qrp-1@lehigh.edu>
Subject: [104504] re: K5DI dipole
Message-ID: <Pine.LNX.4.33.0108091714290.2213-1000000@localhost.localdomain>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Your right Bruce. My writing doesn't reflect my design. It turns out that the 30 meter 1/4 wave is 23.1 and half the 3/2 at 10 meters is 24.6 feet. I am in hope that will be close enough and a 3/2 wave antenna feeds about as well as a 1/2 wave.

Thanks for pointing out my error. I will report on antenna performance tomorrow when it's built and in the air.

On Thu, 9 Aug 2001, Draper, Bruce L wrote:

> >insulator at 16.6 feet makes it resonant at both 20 and 10 meters.
>
> Resonant maybe, but very difficult to feed. It'll be a full wavelength
> dipole on 10, with extremely high feedpoint impedance. I think you need
> another insulator at about 8.3 feet.

>
> -Bruce AA5B

>
>
>
>
>

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Thu, 09 Aug 2001 19:26:41 -0400
From: Ken Newman <N2CQ@citnet.com>
To: epaqrp-l@lehigh.edu, QRP-L@lehigh.edu, njqrp@njqrp.org, n9avg@amsat.org
Subject: [104505] [CONTEST]QRP Contest Calendar - Aug 9/31
Message-ID: <3.0.6.32.20010809192641.008c21b0@mail.citnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

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QRP CONTEST CALENDAR

August 9/31, 2001

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Summer Fox Hunts - 20 M CW QRP - Fri 0200z - July & August

Details: <http://www.mtechnologies.com/cqc/sfox/index.htm>
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Summer CUB Fox Hunts - 20M CW QRP - Wed 0200z - July 4 thru Sep 5

Details: <http://www.wulfden.org/SummerCubFox/>  
~~~~~

Worked All Europe DX Contest (CW)

Aug 11 - 0000z to Aug 12 - 2400z

Rules: <http://www.darc.de/referate/dx/fedcw.htm>
~~~~~

Maryland/DC QSO Party (SSB/CW) ... QRP Category

Aug 11 - 1600z to Aug 12 - 0400z

Aug 12 - 1600z to Aug 12 - 2300z

Rules: <http://www.qsl.net/w3cwc/mdcqso.htm>  
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SARTG RTTY Contest

Aug 18 - 0000z to 0800z

Aug 18 - 1600z to 2400z

Aug 19 - 0800z to 1600z

Rules: <http://home.online.no/~janalme/htmlrules/sartg.html>
~~~~~

North American QSO Party (SSB)

Aug 18 - 1800z to Aug 19 - 0600z

Rules:

<http://www.ncjweb.com/index.php3?leftcol=contestmenu&rightcol=naqprules1>

~~~~~  
NJ QSO Party (CW/SSB)

Aug 18 - 2000z to Aug 19 - 0700z

Aug 19 - 1300z to Aug 20 - 0200z

Rules: <http://www.sk3bg.se/contest/njqp.htm>

~~~~~  
Colorado QRP Club - Summer QSO Party (SSB/CW) \*\*\* QRP CONTEST! \*\*\*

Aug 19 - 1800z to 2359z

Rules: <http://home.online.no/~jana1me/htmlrules/cqcsummer.html>

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TOEC WW Grid Contest (CW)

Aug 25 - 1200z to Aug 26 - 1200z

Rules: <http://home.online.no/~jana1me/rules/toecgrid.txt>

~~~~~  
Slovenia Contest Club RTTY Championship

Aug 25 - 1200z to Aug 26 - 1200z

Rules: <http://www.sk3bg.se/contest/sccrychs.htm>

~~~~~  
W/VE Island Contest

Aug 25 - 1600z to Aug 26 - 2359z

Rules: <http://www.eng.mu.edu/usislands/usvetest.html>

~~~~~  
Hawaii QSO Party (CW/SSB) ... QRP Category

Aug 25 - 1600z to Aug 26 - 2200z

Rules: <http://home.online.no/~jana1me/htmlrules/qsohi.html>

~~~~~  
Ohio QSO Party (CW/SSB) ... QRP Category

Aug 25 - 1600z to Aug 26 - 0400z

Rules: <http://www.qsl.net/mrrc/oqp.html>

~~~~~  
South Dakota QSO Party (CW/SSB)... QRP Category

Aug 25 - 1600z to Aug 26 - 2200z

Rules: <http://home.online.no/~jana1me/rules/qsosd.txt>

~~~~~  
BUBBA Summer QRP Sprint *** QRP CONTEST! ***

Aug 25 - 1800z to 2200z

Rules: <http://www.extremezone.com/~nk7m/>

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Thanks to LA9HW, SM3CER, WA7BNM, ARRL and others  
for assistance in compiling this calendar.

Anyone may use this "QRP Contest Calendar" for your website, newsletter,  
e-mail list or other media as you choose.  
(Include a credit to the source of this material of course.)

72 de  
Ken Newman - N2CQ

N2CQ@ARRL.NET      <http://www.NJQRP.org>  
                      <http://www.N3EPA.org>  
                      <http://www.qsl.net/cqrp/contests.html>

72 de  
Ken Newman - N2CQ                      ==    QRP CONTEST CALENDAR    ==



Woodbury, NJ  
FM29jt  
N2CQ@ARRL.NET

<http://www.njqrp.org/data/contesting.html>

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Date: Thu, 9 Aug 2001 16:37:11 -0700  
From: "Mike Golini" <mgolini@home.com>  
To: <qrp-l@Lehigh.EDU>  
Subject: [104506] QRP Wattmeter - info needed  
Message-ID: <011201c1212c\$368136c0\$6601a8c0@chnd1.az.home.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I have an old "Buddy B/KW" SWR/Wattmeter that I purchased sometime ago at swapmeet in Mesa, AZ. It has scales for 10W, 100W, and 1000W (way too much). The original xfmr only had 1 turn on the secondary (for QRO), so I retrofitted it with 2 turns to make it more sensitive for SWR using QRP. Balanced it and hey, it works!

Now, I can calibrate the 10W scale but I would like to make the current 1000W scale actually go FS at 10W, the 100W scale to go FS at 1W, and the current 10W scale to go FS at 100mW.

The meter FS is 200uA.

I tried to just adjust the pots, but the range was not sufficient.

Any ideas?

Any info would be appreciated.

PS. I run a HW-9 and Wilderness NorCal40A, so 10W would be the max.

72/73  
Michael J. Golini  
KA1SLT QRP-L #1649

-----  
Date: Thu, 9 Aug 2001 19:22:46 -0500

From: "Tony Parks" <robert.parks11@gte.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [104507] KB9YIG cub fox log 8/7  
Message-ID: <001101c12132\$9637b840\$ea85113f@3dse0>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello Hounds,

Thanks to all who came out for the Cub Fox hunt on August 7. This was my second Cub Fox run and I had lots of fun! As in my first outing George, W5YR, was there first with both barrels blazing. It must be that George's signal is attracted by all the corn surrounding my loop antenna here in Indiana - he was loud.

Please contact me directly for any corrections to my log.

Thanks and 72,  
Tony  
KB9YIG

0201 W5YR 559 TX GEORGE 5W  
0202 W6ABC 599 CA JACK 5W  
0204 AF4PS 589 FL MAC 3W  
0205 N2CQ 569 NJ KEN 5W  
0206 N1TP 599 FL TOM 5W  
0208 K0EVZ 579 ND DOC 5W  
0209 N0DSP 599 CO TOM 5W  
0210 K4BYF 589 FL JACK 5W  
0213 K5DI 589 NM KARL 5W  
0215 VA6RF 559 AB EARL 5W

0216 N5IB 559 LA JIM 5W  
0218 KC1FB 559 CT JIM 3W  
0221 VE6EX 559 AB DAN 5W  
0224 W0CH 559 MO DAVE 1W  
0225 K1VP 559 NH ED 5W  
0229 WA7SPY 559 CA GLENN 5W  
0230 K4GT 559 GA JIM 5W  
0231 W3CD 599 CA BOB 5W  
0233 KE6RS 559 CAN RON 5W  
0234 AC5J 559 OK TOM 5W

0237 KG4FSN 559 FL JUAN 4W  
0240 KI0II 559 CO RON 1W  
0244 WB5DED 579 NM BILL 5W

0246 AD6JY 559 CA DAN 5W  
0249 KM4YY 589 VA LEE 1W  
0250 KB7WW 559 OR ART 5W  
0252 W4NJK 559 CA CHARLIE 5W  
0255 KN6YD 579 CA JEFF 2W  
0258 AA7EQ 559 AZ BOB 5W  
0259 VE6JAZ 559 AB ROB 5W

0302 K4TJD 579 GA TOM 5W  
0303 AG0T 559 ND TODD 250MW  
0307 N0RC 599 CO ROD 5W  
0309 VE1MT 579 NS LAYTON 5W  
0323 KJ5VW 559 TX GARY 5W  
0327 KD5KXF 559 TX MIKE 5W  
0329 N0HRL 559 MN KEN 5W  
0342 W9UQB 229 AZ MIKE 5W  
0343 N9NE/0 579 SD TODD 5W  
0350 HR1RTF 469 HR RODNEY 100W

0400 KB9YIG 559 IN TONY 5W FOX

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Date: Thu, 09 Aug 2001 19:21:25 -0500  
From: <bpwebb@mastnet.net>  
To: <qrp-1@lehigh.edu>  
Subject: [104508] Elecraft K2 FOR SALE  
Message-ID: <997402885.3b7329059fab5@webmail.qaccess.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1  
Content-Transfer-Encoding: 8bit

FOR SALE: Elecraft K2, Serial No. 1731. Clean, like new with KAT2 installed.  
Works great. KAT2 does not read power correctly. No time to troubleshoot.  
Also includes K160RX kit, never started. \$675 takes all and I ship.  
E-mail direct or call 979-265-8078.

Paul Webb, K5HKX in Texas

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Date: Thu, 9 Aug 2001 17:09:53 -0800  
From: anthony@pacinfosb.com  
To: kd7bcy@teleport.com, qrp-1@Lehigh.EDU  
Subject: [104509] Where to find a 40673  
Message-ID: <Chameleon.997402922.Anthony@PID038>  
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; CHARSET=ISO-8859-1

I like dual-gate mosfets - I bought about a hundred of 'em when Motorola was still making MFE201's. For most ham applications the various part numbers are interchangeable. I think some of the european and japanese numbers are still made, but they would be hard to get. I know my Alinco DX-77 uses lots of DG mosfets, so they may be available from Alinco as replacement parts. These would be in a surface-mount package, though.

I know of one commercial receiver product where the designer replaced the two DG mosfets in the front end with DG mesfets, which are still popular and available from NEC and maybe some other microwave parts makers. The characteristics are somewhat different I understand (maybe some of the working RF engineers out there could elaborate) but they worked fine as the RF amp and mixer at VHF in this application.

If anyone has a some of the DG mesfets, I'd like to get a couple to play with as a replacement for the FET in a regen receiver.

73, WN6Q

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Anthony Felino, Pacific Information Design  
email: anthony@pacinfosb.com  
telephone: (805) 730 1565, x25  
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-----  
Date: Thu, 9 Aug 2001 20:25:33 -0400  
From: "Steve Ray" <sbralr@worldnet.att.net>  
To: <qrp-1@Lehigh.EDU>  
Cc: <k5di@zianet.com>  
Subject: [104510] re: K5DI dipole  
Message-ID: <001a01c12132\$fedf1a00\$8bcd5c0c@home>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Just a thought on this discussion, I use a dipole cut for 30 Meters and it works like a champ on 30 and 15 meters, but get better reports with a separate 80 meter dipole on 10 meters. All are fed with 450 ohm ladder line. The 80 meter dipole is lousy on 30 and 15 meters.

I found that I could get a much easier match with my homebrew ARRL Handbook Tee Tuner using a 1 to 1 balun vs. a 4 to 1 balun with my 30 meter dipole.

I read W4RNL article on getting an antenna for 17 and 12 meters and put up a 17 meter dipole also fed with ladder line and it works great on 17 and 12 meters.

I now tune all these antennas with a Johnson Matchbox Junior.

72,  
Steve Ray K4JPN ex K1VKW  
HW-101, HW-8, Elecraft K2 1422  
HeathKit fan  
EM82fp  
Warner Robins GA

-----  
Date: Thu, 9 Aug 2001 21:16:09 -0400  
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>  
To: ".QRP-L Discussion Group" <QRP-L@Lehigh.edu>  
Cc: ")W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>  
Subject: [104511] FOX Ready to Run :-)  
Message-ID: <200108092116\_MC3-DC0C-C792@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable  
Content-Type: text/plain;  
          charset=ISO-8859-1  
Content-Disposition: inline

Gang:

Well in only 50 minutes FOX K0EVZ will be out and running. A couple of hours ago looked like the weather would kill this hunt, but now the skies=

are clear. Have not listened to the band yet, but I hope it will be in good shape. Starting frequency will be 14.061 +/- QRM. Please try to ke=ep

my \*transmit\* frequency clear so everyone can have a chance. NOTE: I am=

planning to listen high and low, and rarely on my transmit frequency. Th=is  
is simply to keep the pack spread out a bit.

Anyway.....there are lots of pelts to be given out tonight, and I hope you will come claim yours. See you soon. BTW, remember that there are \*two\* separate hunts tonight, and Jim N5IB will be somewhere between

14.050-14.056. =

73,  
--Doc/K0EVZ

-----  
Date: Thu, 09 Aug 2001 18:36:57 -0700  
From: David J Adams <david@theadamsclan.com>  
To: qrp-l@lehigh.edu  
Subject: [104512] Why we read the manual first  
Message-ID: <3B733AB9.9AB2C3C0@theadamsclan.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

A good example of why one should always read the entire manual prior to assembly:

Last instruction page 7: Before installing Q5 and Q6 mount the two heat sinks to them...

First Instruction Page 8 (page turn required): Install final amplifier transistors q5 and q6 LAST....

Go figure...actually, had I not been zoning out to the music blasting from the computer I would have noticed the resistor pads that are now happily blocked by the finals...ah well..no biggy...just pull the sinks and there is room aplenty....

73 de dave, n9uxu

....my chem prof would be so ashamed...

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Date: Thu, 9 Aug 2001 22:15:15 EDT  
From: ARDUJENSKI@aol.com  
To: qrp-l@lehigh.edu  
Subject: [104513] DCTL resonance  
Message-ID: <85.e492927.28a49db3@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

I don't recall who inquired about the DCTL antenna resonance but from

documentation it is adjusted by the stub. Lengthening the stub lowers the resonance frequency. If some one else has more info please jump in here.  
Alan KB7MBI

-----  
Date: Thu, 9 Aug 2001 20:23:21 -0600 (MDT)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: <qrp-1@lehigh.edu>  
Subject: [104514] FOX Tonight's Fox stations STRONG!  
Message-ID: <Pine.LNX.4.33.0108092016560.2550-100000@localhost.localdomain>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Since Doc is always so loud down here in Southern NM at this time I went for him first. Found him at 14.061 and called up 1 and he heard me. I gave him a 599 because that's what the s-meter said. So K0EVZ in the log at 0206Z.

Next I looked for N5IB and found him at 14.0542 and got him the first call from LA. Also 599 on my s-meter at 0210Z.

So from my point of view the propogation Gods were kind to me. That and a QRP Gallon into a TH6DXX at 60 feet.

--  
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

-----  
Date: Thu, 9 Aug 2001 20:20:12 -0600  
From: "Rod Cerkoney, N0RC" <rod@n0rc.com>  
To: <k5di@zianet.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [104515] Re: FOX Tonight's Fox stations STRONG!  
Message-ID: <00ec01c12142\$fce79c80\$6401a8c0@c919125b>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

----- Original Message -----  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Thursday, August 09, 2001 8:23 PM  
Subject: FOX Tonight's Fox stations STRONG!

Got Doc early like you, very strong hear. but...

>

> So from my point of view the propagation Gods were kind to me.

> That and a QRP Gallon into a TH6DXX at 60 feet.

>

> --

> Yours Truly,

>

> - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

>

-----  
Date: Thu, 9 Aug 2001 20:43:56 -0600 (MDT)  
From: mugglesto@ecentral.com  
To: unlisted-recipients;; (no To-header on input)  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [104516] Re: UPS deal at Office Max? Not in Dallas!  
Message-ID: <Pine.LNX.4.10.10108092042090.5194-100000@mugleston.mugs.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Just got back from Office Max in Aurora Colorado - no discount or coupon available here. It wasn't in the managers list of deals either. If anyone finds the details out let the list know as I could use one.

Brad Mugleston, KI00T  
Aurora, Arapahoe Cty, Colorado  
DM79oq 39.692500N 104.802600W  
CQC #170, QRP-L #316, NorCal #2934

On Thu, 9 Aug 2001, Kanalz, Karl wrote:

> I went to the Office Max store across the street from my  
> office and while they indeed had the BF-350 battery backup  
> system at \$89.99 (4 cents more than in Lewisville) and they  
> were showing a \$30.00 discount ".... At the register...." They  
> did not have a coupon for a further \$50 discount, nor did they  
> seem to know about it. There were no discount coupons, by  
> the way, near the BF-350 shelf that I could see....

>

> Hmmm.... It looks like, Preston, you found an extremely good

> Deal!



>  
> Karl K - W8TIF  
> McKinney, Texas

-----  
Date: Thu, 9 Aug 2001 21:15:26 -0600 (MDT)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: <qrp-1@lehigh.edu>  
Subject: [104517] Resonant Antenna's  
Message-ID: <Pine.LNX.4.33.0108092047400.2593-100000@localhost.localdomain>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Looking at any good book on antenna design you will see some that are touted as good that are not resonant at the frequency of use. Good examples of these is the G5RV all band inverted V that is almost but not quite resonant on 20 meters.

Many Hams use the G5RV and do make many contacts some of which are good. I ran this and another non-resonant antenna wherein I fed the top of my 60 foot tower against a 70 foot wire. This was not resonant on any Ham band but I did have good contacts with QRO power.

My TH6DXX beam is resonant on 20,15 and 10 meters and the elements are physically and electrically 1/2 wave. This beam works great and I felt that this was due to it being a beam. But now I know it's also because it's a resonant antenna.

The W3FF dipole is another resonant but physically short antenna that sure works good even on 40 meters. On 20 meters it's close to a physical 1/2 wavelength and it sure works better than I ever imagined.

Finally, I went back to the Maxwell Displacement Therom and there I was able to show that resonance is an important part of radiation effeciency! This is nothing new, since it was done first in 1849...

So many good antennas are of the resonant type. I have a Butternut vertical that is 1/4 on 40 meters. It has 4 tuned radials on the roof of my house. The MFJ antenna analyzer shows 35 ohms resistance at resonance 7.040 MHz. I have worked europe QRP on 40 meters with this antenna.

You can try an experiment if you want to. I have done this and got the results I expected. Make a 20 meter dipole that's resonant. Put up a lot of wire not resonant at 20 meters and with a tuner make it match the transmitter with a 1:1 swr. Now make a few contacts and see the

difference! The dipole will be at least 1 s-unit stronger off the sides of the dipole. This is a huge improvement, but the random wire still works.

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

-----  
Date: Thu, 9 Aug 2001 22:08:30 -0500  
From: "Gene Sailsbury" <gsailsbury@mobill1.net>  
To: "Low Power" <qrp-l@Lehigh.EDU>  
Subject: [104518] FB 40 Kit  
Message-ID: <000e01c12149\$bcbcbbee0\$9cc03fd8@8tracker>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Does anyone have the FB 40 kit or just the board that they would like to sale?

Send me a note at gsailsbury@mobill1.net

Tnx

Gene Sailsbury KC0IKY

-----  
Date: Thu, 9 Aug 2001 21:26:05 -0600  
From: "Rod Cerkoney, N0RC" <rod@n0rc.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [104519] FOX: What a difference a few weeks makes  
Message-ID: <010a01c1214c\$30e04600\$6401a8c0@c919125b>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Wow,

0320z and Doc is still booming into Fort Collins 599+! Last time he was the Fox I could not hear him!

Jim's sig is up from a hour ago, 339-449 range, earlier he was a black

hole within the calling hounds. Managed to bag him around 0320 with a very botched exchange on my part. (Must have been a localized CME event scrambling my neuro system ;-)

73, Rod N0RC  
Ft Collins, CO

-----  
Date: Thu, 9 Aug 2001 22:42:42 -0500  
From: Todd Enders <enders@bolshoi.cc.misu.nodak.edu>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [104520] Re: FOX: What a difference a few weeks makes  
Message-ID: <200108100342.AA00709@bolshoi.cc.misu.nodak.edu>  
Content-Type: text/plain  
Mime-Version: 1.0 (NeXT Mail 4.2mach\_patches v148.2)

No lie! Last time I got Jim pretty easy with 300 mW. This time it took 5W and several repeats. Didn't hear Doc at all last time, now I hear him at ESP levels -- I'm only about 100 mi. from him. Trying to get/keep him centred in the 100 Hz filter for a maybe 229 copy. Keep your fingers crossed... :-)

72/73,

Todd, AG0T

-----  
Date: Fri, 10 Aug 2001 00:00:42 -0400 (EDT)  
From: Frank Brickley <brickley@pobox.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [104521] First run w/ hounds  
Message-ID: <Pine.BSI.4.05L.10108092351050.3768-1000000@pluto.njcc.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

This could be addicting.

QRP split is \*hard\*, when all the hounds I hear, the fox can't, and the fox hears only the hounds I can't.

Frank  
AB2KT

PS Any Moral Victory Points for the willpower required to leave the power

cranked as low as it will go? ;-)

-----  
Date: Fri, 10 Aug 2001 00:09:19 -0400  
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>  
To: ".QRP-L Discussion Group" <QRP-L@Lehigh.edu>  
Cc: ")W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>  
Subject: [104522] K0EVZ FOX--Whew :-)  
Message-ID: <200108100009\_MC3-DC10-846A@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable  
Content-Type: text/plain;  
          charset=ISO-8859-1  
Content-Disposition: inline

Gang:

Well a quick word. The FOX Hunt just ended, and man oh man, it was messy= for the last 65 minutes. QSB was fierce, and signals were essentially ES= P level. Did my best to dig everyone out, but I believe there were some still calling at the end. Looks like the total will be 85 including K0EV= Z, minus any dupes, etc. Will do my best to post a log sometime tomorrow, b= ut it may be Saturday. =

Setup was K2 to the IAC Double Bazooka throughout, as I could hear hardly= any signals on the loop (may have problems with it--need to check it out)= . =

Thanks again.

73,  
--Doc/K0EVZ

-----  
Date: Fri, 10 Aug 2001 00:11:46 EDT  
From: n5ib@juno.com  
To: qrp-l@Lehigh.edu  
Subject: [104523] FOX - N5IB after action report

Message-ID: <20010809.230536.7551.0.n5ib@juno.com>

Pretty rotten conditions at this end. Few good signals, and a bunch I just couldn't pull out. Looks like only 62 pelts this time. Wonder if it's time to try a new antenna.....

72

Jim N5IB

---

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<http://dl.www.juno.com/get/tagj>.

---

Date: Fri, 10 Aug 2001 00:16:35 EDT

From: N0tk@aol.com

To: rod@n0rc.com, qrp-1@lehigh.edu

Subject: [104524] Re: FOX: What a difference a few weeks makes

Message-ID: <108.3e04be6.28a4ba23@aol.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

Content-Transfer-Encoding: 7bit

Rod

Similar experience from me, your neighbor to the south. Doc was easy to work on the attic dipole. Jim was QSB up and down and I called for nearly an hour before going outside to the Norcal Doublet which is under the eaves. 3 calls and 2 mosquito bites later I got Jim in the log.

72

Dan N0TK

Highlands Ranch,CO

---

Date: Fri, 10 Aug 2001 04:23:30 +0000

From: Dragon Singer <WM-Scace@wiu.edu>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [104525] My first Pelt in the "Big" hunt.

Message-ID: <5.1.0.14.0.20010810041751.0220ce90@pop3.wiu.edu>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Hi fellow Hounds,  
Wayne K9DI es Sequoia here. I bagged Jim on 14.054.2 after he

kindly QRS'd for me!! Next step lower my power...

Tnx Jim for my first Louisiana QS0!! You and John N1Q0 (my first Vermont QS0) are my 4th es 5th CW QS0's!!! I'm already over the edge. Bring on the Winter Hunts!!!!  
72 es 00

Respectfully and Sincerely Yours,

Wayne M. Scace

k9di@arrl.net  
LICQ# 315313  
FISTS# 4409  
QRP-L# 2313  
FPQRP-L# 217  
SOC# 452  
ARS No. 1,082

-----  
Date: Thu, 09 Aug 2001 23:39:40 -0500  
From: "George, W5YR" <w5yr@att.net>  
To: n5ib@juno.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [104526] Re: FOX - N5IB after action report  
Message-ID: <3B73658C.9F54E59@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Jim, you are a nice guy and all that, but the only thing that will help me is for you to move about 600 - 800 miles further away! <:}

I imagined that I heard your call one time, but pure ESP here near Dallas. Even the Hounds were so far in the noise that it was hard to pull them in.

When Doc called you at 0301Z, two things happened: (a) I finally knew your frequency for sure and (b) Doc very nearly knocked the cans off my head! <:}

Thanks for trying, Jim - next time for sure!

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6  
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe  
Amateur Radio W5YR, in the 55th year and it just keeps getting better!  
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

n5ib@juno.com wrote:

>  
> Pretty rotten conditions at this end. Few good signals, and a bunch I  
> just couldn't pull out. Looks like only 62 pelts this time. Wonder if  
> it's time to try a new antenna.....  
>  
> 72  
> Jim N5IB

-----  
Date: Fri, 10 Aug 2001 00:41:50 EDT  
From: Jfelts202@aol.com  
To: qrp-l@lehigh.edu  
Subject: [104527] Info Wanted?  
Message-ID: <d4.a727ec0.28a4c00e@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

I'm in the process of building a Novice station. I'm trying to find different transmitters and receivers that I had or used in my first 3-4 years of hamming. I've found one of the receivers a Conor 500. Now I'm searching for a old Ameco AC-1 transmitter. There is one on EBay right now but its going to be sky high. Does anyone have one sitting around they would like to get rid of? Has anyone ever come out with a duplicate kit for it?

Ok thats one possible transmitter. Another one I built was from a magazine article. I built several of them, it used a 6V6, or 6L6 was built on a pie pan, worked 80 and 40. The magazine was either Popular Electronics or Electronics Illustrated. It had to be around 1967 up 1969 I'm guessing. Anyone got the magazine, or know of the article?

Thanks

Jerry in South Dakota

-----  
Date: Fri, 10 Aug 2001 00:48:41 EDT  
From: Jfelts202@aol.com  
To: qrp-l@lehigh.edu  
Subject: [104528] Logging Software?  
Message-ID: <ad.eaa444c.28a4c1a9@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Last thing for tonite, does anyone know if there is any simple FREE logging software out there?

Jerry in South Dakota

-----  
Date: Fri, 10 Aug 2001 06:58:19 +0200  
From: "Stephane Collas" <Stephane.Collas@wanadoo.fr>  
To: <Jfelts202@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [104529] Re: Logging Software?  
Message-ID: <008b01c12159\$14948c10\$22c8fcc1@LTP011520>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Jerry,

Logger is a free program.

An excellent one, indeed!

You can download it on my home page : <http://www.qsl.net/f5nzy>

Click on logger.

73's de Steph, F5NZY  
<http://www.qsl.net/f5nzy>

----- Original Message -----

From: <Jfelts202@aol.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Friday, August 10, 2001 6:48 AM  
Subject: Logging Software?

> Last thing for tonite, does anyone know if there is any simple FREE  
logging  
> software out there?  
>  
> Jerry in South Dakota

-----  
Date: Fri, 10 Aug 2001 01:09:35 -0400



From: Pete Burbank <plburbank@kih.net>  
To: Jfelts202@aol.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [104530] Re: Info Wanted?  
Message-ID: <5.0.2.1.0.20010810010053.00ac2030@KIH.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 12:41 AM 8/10/2001 -0400, Jfelts202@aol.com wrote:

>snip

>

>Ok thats one possilbe transmitter. Another one I built was from a magazine  
>article. I built several of them, it used a 6V6, or 6L6 was built on a pie  
>pan, worked 80 and 40. The magazine was either Popular Electroncs or  
>Electronics Illustratulated. It had to be around 1967 up 1969 I'm guessing.  
>Anyone got the magazine, or know of the artilcle?

>

>Thanks

>

>Jerry in South Dakota

Jerry.

I could be wrong but I seem to remember building a Handbook rig using a 6L6.  
It had a black metal 6L6 that was a real mistake to grab while hot.

Pete NV4V

-----  
Date: Fri, 10 Aug 2001 07:28:25 -0400  
From: Bill Meara <n2cqqr@clix.pt>  
To: qrp-1@lehigh.edu  
Subject: [104531] Source for 88 mh toroid?  
Message-ID: <3.0.6.16.20010810072825.20ff0590@pop.clix.pt>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I did some web searching, but no luck. Anyone know of a supplier for 88 mh  
toroids for use in an AF filter?

73 de CU2JL (aka N2CQR)

Bill Meara

Sao Miguel Island,

The Azores, Portugal

<http://planeta.clix.pt/n2cqqr>

-----  
Date: Fri, 10 Aug 2001 05:44:22 -0500  
From: "Chuck Carpenter" <w5usj@globeco.net>

To: Jfelts202@aol.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [104532] Re: Logging Software?  
Message-ID: <3.0.2.32.20010810054422.008128d0@mail.globeco.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Jerry,

Check out QRPDupe. QRP logging from a QRPer.

<http://personal.palouse.net/rfoltz/arci/k7re.htm>

At 12:48 AM 08/10/2001 EDT, Jfelts202@aol.com wrote:

>Last thing for tonite, does anyone know if there is any simple FREE logging  
>software out there?

>

>Jerry in South Dakota

>

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1  
ARCI #5422, QRP-L #1306, SOC #57, Six Club #201, SMIRK #6275  
Zombie #759, RARA #3, Visit NETXQRP Web Site: <http://www.netxqrp.org>

-----  
Date: Fri, 10 Aug 2001 07:15:53 -0400  
From: "Bruce & Tosh Hopkins" <makai@makai.org>  
To: <Jfelts202@aol.com>  
Cc: "qrp-l@Lehigh. EDU" <qrp-l@Lehigh.EDU>  
Subject: [104533] Simple Glowbug for 80/40  
Message-ID: <NFBBKBONCLCJNINPCKDBEEPHCAAA.makai@makai.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Jerry & Gang...

Take a look on my website in the GlowBug section at a great little two  
tube transmitter designed by Mike-W3IRZ... Easy to build and fun to use...  
Can be viewed at <http://www.makai.org/KL7H-C6A>

Take care and have fun...

72 - Bruce - KL7H/C6A

kl7h@arrl.net

<http://www.makai.org/KL7H-C6A>

-----  
Date: Fri, 10 Aug 2001 07:45:27 -0400  
From: "E. Roswell" <eroswell@monmouth.com>  
To: qrp-l@Lehigh.EDU  
Subject: [104534] Re: Logging Software?  
Message-ID: <3B73C957.FA0B524F@monmouth.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Try the shareware version of LOG-EQF, which is EQF,JR.  
<http://www.eqf-software.com/pages.cfm?ID=17>  
Scroll down to jreqf.zip for shareware version.  
73, Ed,  
K2MGM

-----  
Date: Fri, 10 Aug 2001 05:53:39 -0600 (MDT)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: Frank Brickle <brickle@pobox.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [104535] Re: First run w/ hounds  
Message-ID: <Pine.LNX.4.33.0108100544130.1164-1000000@localhost.localdomain>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Frank, I'm error prone. I forget to press split and call the fox on his frequency. My antenna tuner (manual) is easier to adjust with 50 or 100 watts so I use that since the TS-50 runs 5, 50, or 100 watts by a button push. And I have called the fox with 100 watts! But never got the fox with accidental high power.

The secret is to discover which frequency the fox is listening to, and then call him on that frequency when he finishes. Of course you need to be able to hear the fox.

I had propagation last evening and I was done with fox hunting in 10 minutes. When you lack propagation you just find the fox frequency and listen for a long time.

On Fri, 10 Aug 2001, Frank Brickle wrote:

> This could be addicting.  
>  
> QRP split is \*hard\*, when all the hounds I hear, the fox can't, and the  
> fox hears only the hounds I can't.  
>  
> Frank  
> AB2KT  
>  
> PS Any Moral Victory Points for the willpower required to leave the power  
> cranked as low as it will go? ;-)  
>  
>  
>

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

-----  
Date: Fri, 10 Aug 2001 08:42:12 -0400 (EDT)  
From: Stephan Greene <sgreene@patriot.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [104536] First hunt, first pelts!  
Message-ID: <Pine.LNX.4.10.10108100835450.1958-1000000@tzion.greene.lan>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

This was my first hunt. I was operating from the 4th floor of a hotel (business trip) with 66' of wire tossed out the window and the K1's internal tuner. I could get almost a 1:1 match, so I knew

Doc was booming in most of the night (so was the pack) and I was fortunate to work him in a few minutes (even if it took a few tries to get my complete call through). Never thought a QRP pile-up would sound so LOUD!

Jim was down in the noise, sometimes at ESP levels; luckily he came up about the same time he had to QSY down to avoid a station calling CQ and I was able to bag him.

This was fun!

72, Steve KA1LM

---

|                   |                       |                     |
|-------------------|-----------------------|---------------------|
| Stephan A. Greene | sgreene@patriot.net   | ka1lm@amsat.org     |
| Herndon, VA       | 1-703-421-7101 office | 1-703-980-3475 cell |

---

---

Date: Fri, 10 Aug 2001 06:09:04 -0700  
From: David Shalita <davidr@cnmnetwork.com>  
To: qrp-p <qrp-1@Lehigh.EDU>  
Subject: [104537] T4XB Mic plug-part number  
Message-ID: <3B73DCF0.A052C69D@cnmnetwork.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I am trying to do PSK31 with my DRAKE Twins, R4B, T4XB.  
ON T4XB, what is the part number for the MIC plug that DIGIKEY or MOUSER  
understands  
so I can search for a part or two. MIC plug is marked PL-68.  
PSK31 BUXCOMM docs refers to the plug as a Collins connector.  
Part is 0.260 inch, smaller and shorter than standard 1/4 dia plug,  
and has ring and tip circuits for PTT and audio.  
Thanks and 73, W6MIK, Dave

---

Date: Fri, 10 Aug 2001 09:09:40 -0400  
From: "AI2Q Alex" <ai2q@adelphia.net>  
To: <plburbank@kih.net>  
Cc: "QRP-L (E-mail)" <qrp-1@Lehigh.EDU>  
Subject: [104538] Info Wanted: 6L6 schematic  
Message-ID: <000001c1219d\$b7ef9b40\$6401a8c0@alex>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Pete:

The schematic for my little 6L6 rig is shown at  
[http://www.qsl.net/n6ev/7awk\\_6l6.jpg](http://www.qsl.net/n6ev/7awk_6l6.jpg) (although they show my call  
incorrectly). There are also some pix of how others built it.

It's somewhat similar to the ol' Ameco rig.

Also, a photo of the completed box (and a mating 2-tube regen receiver) appeared in the "Up Front" section of Dec. 1997 QST magazine (page 20).

I've worked a lot of DX with this rig on 80 and 40 meters running about 4 or 5 watts out during the annual Old Time Transmitter tests held by the Antique Wireless Association. The fun part of that is at the end of each QSO when I reach up and lightly grasp the envelope of the 6L6. Although it's a xtal controlled (Colpitts) oscillator, I can "pull" the frequency quite a bit with hand capacitance, and create a Theramin-like sign-off that always gets a comment from the other op!

Have fun. If you want hard copy of my schematics, send an SASE to my CBA, or I can fax 'em to you. I also have OrCAD files available.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Pete Burbank

Sent: Friday, August 10, 2001 1:10 AM

To: Low Power Amateur Radio Discussion

Subject: Re: Info Wanted?

At 12:41 AM 8/10/2001 -0400, Jfelts202@aol.com wrote:

>snip

>

>Ok thats one possilbe transmitter. Another one I built was from a magazine  
>article. I built several of them, it used a 6V6, or 6L6 was built on a pie  
>pan, worked 80 and 40. The magazine was either Popular Electroncs or  
>Electronics Illustratulated. It had to be around 1967 up 1969 I'm guessing.  
>Anyone got the magazine, or know of the artilcle?

>

>Thanks

>

>Jerry in South Dakota

Jerry.

I could be wrong but I seem to remember building a Handbook rig using a 6L6. It had a black metal 6L6 that was a real mistake to grab while hot.

Pete NV4V

-----  
Date: Fri, 10 Aug 2001 09:11:54 -0400  
From: "AI2Q Alex" <ai2q@adelphia.net>  
To: <n2cqr@clix.pt>  
Cc: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>  
Subject: [104539] RE: Source for 88 mh toroid?  
Message-ID: <000101c1219e\$07639280\$6401a8c0@alex>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Bill, you might want to query the RTTY list. Maybe an OT has some 88 mH toroids still floating around in his junkbox.

-- Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Bill Meara  
Sent: Friday, August 10, 2001 7:28 AM  
To: Low Power Amateur Radio Discussion  
Subject: Source for 88 mh toroid?

I did some web searching, but no luck. Anyone know of a supplier for 88 mh toroids for use in an AF filter?

73 de CU2JL (aka N2CQR)

Bill Meara

Sao Miguel Island,

The Azores, Portugal

<http://planeta.clix.pt/n2cqr>

-----  
Date: Fri, 10 Aug 2001 07:19:53 -0600  
From: "David Ek" <ekdave@earthlink.net>  
To: <jfelts202@aol.com>  
Cc: <qrp-l@lehigh.edu>

Subject: [104540] RE: Logging Software  
Message-ID: <000901c1219f\$2779e0a0\$53011c3f@logicon.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Jerry,

I like XMLog. <http://www.xmllog.com/>

It's free as well, and is well supported by its author.

73 de Dave NK0E

-----  
Date: Fri, 10 Aug 2001 06:28:53 -0700  
From: David Shalita <davidr@cnmnetwork.com>  
To: qrp-p <qrp-l@Lehigh.EDU>  
Subject: [104541] PSK31 trouble - PC Noise  
Message-ID: <3B73E195.17CCF2FA@cnmnetwork.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi,

I am attempting to run PSK31 at home with DRAKE TWIN TX and RX.  
My first attempt is in receive only mode running winwarbler on PC using  
a resonant N5FS style LOOP ant cut for 20M.

PC display acts like it is mostly noise and signals appear VERY weak  
with lots of QSB.

PC noise seems to overwhelm and possibly desence the DRAKE RX. I hear  
TTY at 14.070 when PC is off. I hear squeals, whistles, etc when PC is  
on that were not heard when PC was off. PC is less than 6 feet from RX.

I sure can use some advise to suppress some of the PC and monitor added  
noise.

Thanks for hints, 73, W6MIK, Dave

-----  
Date: Fri, 10 Aug 2001 06:34:24 -0700



From: David Shalita <davidr@cnmnetwork.com>  
To: qrp-p <qrp-1@Lehigh.EDU>  
Subject: [104542] PSK31 software  
Message-ID: <3B73E2E0.D1D1F45C@cnmnetwork.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi,

Is anyone using WINWarbler software for PSK31?  
I am and cannot find documentation to enable me to receive 2 or 3 QSO's  
at same time. WinPSK seems more usable software.

On a Pentium PC running win98, what are your favorite software  
for running PSK31?

Thanks, 73, W6MIK, DAave

-----  
Date: Fri, 10 Aug 2001 06:47:09 -0700  
From: "Bill Jones" <kd7s@psnw.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [104543] Looking for half-square/bobtail info  
Message-ID: <004b01c121a2\$f39ebe50\$9110010a@fresno>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Friends,

I would like to exchange info with anybody who has built and used either a  
half-square or bobtail curtain. I am especially interested in whether you  
used voltage or current feed and whether it was elevated or not. I'm  
building a bobtail for 17 meters .... hope to get it up this weekend. And  
yes, I've read the qrp-1 archives.

=====  
Bill Jones - <><  
Sanger, California  
=====

-----  
Date: Fri, 10 Aug 2001 09:48:10 -0400  
From: "Hartwell, Martin E, NLCIO" <mehartwell@att.com>

To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>  
Subject: [104544] For Sale NC-20  
Message-ID: <177C519EE5CCD31195390090278539D30431862E@njb140po04.ems.att.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Hi

Well I guess since I never use any of my HF gear any more I will let someone else get some good use out of some of it.

NC-20 used only a couple of times to try out after built. Installed in the original case as shipped. I have upgraded it by putting in a ten turn pot.

The other mods are purely visual, in that I covered the outside of the top with a wood contact substance that isn't paper, well maybe a plastic covered paper. The front and rear are adhesive covered with a color print of the controls, stuck on and covered with clear top coat sheet.

I am not sure but if I remember correctly there are a couple of other internal mods to get rid of the thump, maybe.

I am asking 125.00 shipped CONUS.

Marty kd8bj

-----  
Date: Fri, 10 Aug 2001 09:56:23 -0400  
From: "George Osier" <gosier@twcnny.rr.com>  
To: <qrp-1@lehigh.edu>  
Subject: [104545] Fw: #60 conf. .... SV1CQN !!!!!!!  
Message-ID: <001301c121a4\$3ddf92e0\$fc704342@twcnny.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "George Osier" <gosier@twcnny.rr.com>  
To: <qrp@yahoogroups.cm>  
Sent: Friday, August 10, 2001 9:55 AM  
Subject: #60 conf. .... SV1CQN !!!!!!!

> Hello All !!!!!  
>  
> #60 confirmed ..... SV1CQN , 700 mw on 20 meters CW  
.....Cool  
> !!!!!  
>  
> 73  
> George , n2jnz / qrp  
>

-----  
Date: Fri, 10 Aug 2001 10:07:51 -0400  
From: John R Kirby <n3aaz-qrp@juno.com>  
To: GQRP@yahoogroups.com, qrp-l@Lehigh.EDU  
Subject: [104546] Construction, Coil Winding 101  
Message-ID: <20010810.100858.-158041.0.n3aaz-qrp@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Ever need a inductor and  
not know where to 'turn' ?  
>>Yes, PUN intended<<

The ARRL HB worked for me. THE FIRST TIME.

If you do not have THE HB,  
here is a short cookbook approach or  
. . . how to plug in the numbers. . .

Calculating Practical Inductance, (ARRL '99 HB, page 6.22):

$$L = ( d^2 * n^2 ) / ( ( 18 * d ) + ( 40 * l ) )$$

note, that >l< is a lower case >L<,  
not the numeral one >1<

where:

L = inductance in micro Henry

d = coil diameter in inches

l = (lower case L) = coil length in inches

n = number of turns

I plugged the above equation into my  
EXCEL spread sheet 'xcatly as shown.  
I am sure a hand held calculator will work the math too.

My goal was 20 uH.  
I adjusted (changed) the values d, l, and n above  
to fit a common 35mm plastic film canister until  
I reached the EXCEL inductance of 19.86 uH.

d, diameter, 1.28 ( 1- 9/32 inch )  
n, number of turns, 30  
l, length, 1.28

I used 18 AWG, enameled, copper wire,  
close wound on the above form.

How did I measure the coil?

Again, THE HB and the MFJ 259.

Learned (been a ham 42+ yrs) that if,  
you only have two tools in your kit,  
one best be the MFJ 259 (or equivalent,  
yes, a grid dipper would 'ball park' it ).

Resonant Circuits, (ARRL '99 HB, page 6.35):  
>>>  $f = 1 / ( 2 \pi \text{ times the square root of } L \text{ times } C )$  <<<

$f = 1e3 / ( 2 * 3.14 * ( L * C ) ^{0.5} )$

where:

1e3 = 1,000

f = Freq in MHz (1e6)

L = inductance in uH (1e-6)

C = capacitance in pF (1e-12)

I plugged the above equation into the EXCEL spread sheet  
using C = 50e-12 (50 pF) capacitor and my 20e-6 coil goal  
to yield a resonant FREQ of 5.05e6.

I then connected . . .  
a 51 Ohm, one W, carbon resistor,  
the 50 pF ceramic capacitor and  
the '20 uH film canisrer' coil  
(all in series)  
to the MFJ 259 ANTENNA port.

The MFJ measured an Fo of 4.93 MHz . . .

Now, I realize that 50 pF is 'small' and therefore the capacitance of a 'close' wound coil >may< >be< a factor, but LQK at this . . .

The calculated numbers were 5.05 MHz and measured numbers were 4.93 MHz . . . that is a DELTA of less than three percent.

$$5.05 - 4.93 = 0.12$$

$$0.12 / 5.05 = 0.023 \quad ( 2.3 \% )$$

WOW that was close enough to publish as a construction how to article.

NOTE, wire size and Q.

The equation above does not take into account wire diameter (wd) where coil length (l) is concerned.

To resolve this problem, do this . . .  
Multiply wd (wire diameter) by n (number of turns) to yield the MINIMUM l (length) >>min l<< required.

Example, from above, my 18 AWG 30 turn coli . . .  
Measured wd was approximately 3 / 64 INCH ( 3 / 64 = 0.0468 inch).

Minimun Length (min l) inches required is . . .

$$\begin{aligned} \text{min l} &= \text{wd} * n \\ \text{min l} &= 0.0468 * 30 = 1.4 \text{ inches close wound} \end{aligned}$$

How much wire is required?  
solve the equation for 'circumference' then multiply by number of turns then divide by 12 to yield feet of wire required.

$$\text{feet of wire} = \pi d n / 12$$

$$\begin{aligned} \text{Example from above . . .} \\ (3.14 * 1.28 * 30) / 12 &= 10 \text{ feet} \end{aligned}$$

73,  
John  
N3AAZ  
FM 19 xa

-----  
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<http://dl.www.juno.com/get/tagj>.

-----  
Date: Fri, 10 Aug 2001 07:09:04 -0700

From: lhlousek <lhlousek@nvhbell.net>

To: n2cqr@clicx.pt, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [104547] Re: Source for 88 mh toroid?

Message-ID: <002801c121a6\$036dcda0\$650dfea9@nvhbell.net>

MIME-version: 1.0

Content-type: text/plain; charset=iso-8859-1

Content-transfer-encoding: 7BIT

Hi Bill,

I am looking for the same and considering winding my own on a Amidon  
PC-1107-77 pot core and bobbin. Something like 240 turns of # 36 or #38  
wire looks like it would work. Let me know if you find a source  
otherwise its time to get out the electric drill and counter.

Lou W7DZN

-----  
Date: Fri, 10 Aug 2001 09:05:28 -0500

From: "Ed Manuel (N5EM)" <n5em@flash.net>  
To: qrp-1@lehigh.edu  
Subject: [104548] Hot Tweezers for SM Work  
Message-ID: <4.3.2.7.2.20010810084935.00bc1220@pop.flash.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Gang,

Those of you familiar with surface mount work commercially know that one indispensable tool for soldering and desoldering chip parts is a pair of Hot Tweezers. Essentially, two tiny soldering irons built to function as a pair of tweezers in your hand. You can also use them for stripping teflon. Check out this application note from Sage Wireline.

<http://www.sagelabs.com/components/stripngnote.html>

If you are interested in owning one of these tools, some have become available.

This is not a group buy, so I don't need a show of hands to decide about acquiring these. I do not know just yet how many are going to be available - at least more than I need :-)

Send me an email (off-list, please) if you would like one. Price will be \$75 (what I'm paying for them) plus applicable shipping twice (to me, then to you). The fellow tried to sell them on Ebay but no one would pay his reserve for them. Retail on these new today is around \$500.

One is currently listed on Ebay if you want to bid on it or to see a picture of this item.

<http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=1625653393>

Again, I'm planning to sell these for just what I have to pay for them - I've recently gotten into the surface mount parts biz and wanted one of these for my bench. With the recent success of the SMT-1, I thought there might be some interest in better equipment.

Ed Manuel, N5EM     Houston, TX (Harris Co.) EL29  
Houston QRP Club, Houston Amateur Television Society  
<http://www.n5em.com/>     [n5em@amsat.org](mailto:n5em@amsat.org)

-----  
Date: Fri, 10 Aug 2001 11:03:35 -0400

From: "Tom Curtola" <tcurtola@home.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [104549] Manhattan-Style Homebrew Kit  
Message-ID: <000c01c121ad\$a13ef0c0\$9eb72a18@yec1.on.wave.home.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Just received my N.J. QRP Club's Manhattan-Style Homebrew Kit in the mail.  
Very nicely put together.  
The included little handbook is itself worth the \$10.00.

Very nicely done George Heron, N2APB!

Also first time Canada Customs didn't open and rummaged through my mail and  
charge me provincial tax, goods and service tax and handling fee.

Tom Curtola  
tcurtola@home.com  
Toronto, Ontario - Canada  
VA3TY

-----  
Date: Fri, 10 Aug 2001 09:44:54 -0600 (CST)  
From: Bruce Ratray <rattray@gpfn.sk.ca>  
To: "Wilford D. Lindsey" <70511.3041@compuserve.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [104550] Re: K0EVZ FOX--Whew :-)  
Message-ID: <Pine.LNX.4.33.0108100943110.7932-100000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Doc....that was me calling you at the end....didn't hear you at all  
until the last 30 minutes with my beam turned long path...but it was fun  
trying.....

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272  
K2#2032 A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -  
QRP Borg#1  
"QRP! How sweet it is!" oo#148 "I am da man wit "DAH" paddle!"

-----



Date: Fri, 10 Aug 2001 10:53:34 -0500  
From: David Gauding <david.gauding@bbs.galilei.com>  
To: qrp-l@lehigh.edu  
Subject: [104551] Heads-up - Cabelas 14' Panfish Pole (long)  
Message-ID: <5.1.0.14.0.20010809162644.00aca080@bbs.galilei.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Good morning portable antenna fans!

Here is a heads-up for portable antenna enthusiasts planning to experiment with the new 14" graphite impregnated panfish pole (#1B-11-5800) being offered by Cabelas. I'm smiling now but wasn't over the last few days while trying to isolate an elusive problem.

#### THE PROJECT

I finally got started converting my Cabelas pole into a support for the new St. Louis Vacation Vertical. The project included building a special lightweight St. Louis Coil for 10-40M on a 1.25" diameter form. Then adding upper and lower radiator wires. And, a set of a dozen St. Louis Radials with all seven conductors cut to 16.5' or an eighth-wave on the lowest design frequency, i.e. 40M.

Next a feedpoint disk with BNC antenna connector fabricated from double-sided pcb material. Finally, I visited a good friend, a mechanical engineer. He kindly designed and then machined a custom two-part threaded solid brass connector for the pole and mounting base. All was in readiness for tuning-up the vertical and enjoying the first QSO.

#### THE PROBLEM

I was disappointed to find that locating tap points on the coil was not the straightforward process it had been for the St. Louis Pocket Vertical and St. Louis Vest Pocket Vertical. Both of these antennas use a well-proven St. Louis Coil so the unexpected problem was baffling at first.

When I finally did get a tap point established for a band, applying power (50W) to confirm the match caused the SWR meter to fluctuate wildly, until I dropped power back to 5W or less. The problem got progressively worse as I went from 20M to 30M and especially 40M. In addition, the tap points unexpectedly changed from their initial locations.

After some connector rattling, coax shaking and other non-technical stuff, it finally dawned that the small metal assembly supporting the eye at the tip of the rod (which holds the upper radiator) was probably conducting RF to the brass connector holding the rod, feedpoint disk (grounded) and the

mounting base. The question was how?

I'm jumping ahead here, but it turned out the fluctuations were due to exposed graphite reinforcements in the fiberglass pole conducting RF. But, the visible surface of the rod is coated in a clear finish so how could it conduct? I disassembled the pole and promptly discovered that the the tip and base of each of the twelve sections is unprotected and therefore will respond to contact with metal.

So I went back to my faithful engineer and he duplicated the screw-together brass connector in non-conductive black delrin. Another beautiful job too! It's very light compared to the metal version, features a knurled body, weep hole, section cushion, etc. Don says it really is too good for a ham, but I digress! <g>

#### MORE SLEUTHING

Well, I thought the annoying RF problem was solved by converting to the delrin connector but unfortunately not quite yet. Before setting-up the antenna again, I did a precautionary thing. Since the metal tip assembly is fitted on bare un-coated rod material, I covered it in rubber tape to insulate that part from contact with the radiator. I also added a small tie-wrap to the tip itself to insulate it from the safety-swivel terminating the radiator.

Now for re-assembly and the tune-up! But, I experienced exactly the same symptoms and therefore the same problem! The only difference being the tap points moved a few turns from the previous experiment, though in no particular pattern.

Then, I noticed that the wire supporting ring at the base of the tapped air-wound coil was resting on a narrow band of un-coated rod material, actually the edge at the top of a rod section. The coil is held in place there by its own weight and friction just above eye level. I added a tie-wrap temporarily at the base of the coil ring to serve as an insulating gasket.

I started tuning again but the erratic RF problem was still there. Curses! I had finally found an attractive collapsible pole for traveling that would collapse to just 15-1/2". Most importantly, it would provide coverage down to 40M with the new SLVV design. And, now the thing wasn't going along with my grand plan!

JOY!

It was time to start examining the pole very carefully, inch by inch. I focused where the upper coil support ring slides along the pole. Whoops! Some of the clear coating on that section was missing (chipped and/or

scratched off during fitting of the coil support wire) which allowed the radiator to conduct RF into the rod once again. I added rubber tape to the offending area to temporarily insulate it from the coil. Then, with fingers crossed and real hopeful, it was back to the operating desk.

I re-started the ritual trial & error matching process with the SWR bridges in my MFJ-941B and Ten-Tec Argosy II. The 20M tap location was easy to find and the rig promptly went to full-power. Then the 30M and 40M tapping points were located. It was starting to look like the antenna was going to work after all. And, I'll be darned if it isn't!

Next step is to make the temporary fixes permanent and then move right ahead on the first test log. That is the standard one-hundred contacts minimum at one watt across all design bands. It will give me time to get to started on the article. That always takes much longer to complete than developing the project itself!

#### CAUTION

If you plan to experiment with the Cabelas pole the rod material contains graphite (as advertised) and it is conductive. Also, the clear protective coating is fairly thick (and somewhat brittle) so handle with care around sharp or abrasive objects.

At this time, the rod appears to be usable as a vertical antenna support as long as precautions are taken around the exposed material. I am not sure how the presence of graphite in the rod will impact antenna performance but we'll find out soon enough.

So far, an even dozen contacts are in the log at one watt spread across 20-30-40M. Looking now for another milliwatt contest! <g>

de Dave, NF0R      nf0r@slacc.com

-----  
Date: Fri, 10 Aug 2001 11:03:34 -0500  
From: "George, W5YR" <w5yr@att.net>

To: davidr@cnmnetwork.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [104552] Re: T4XB Mic plug-part number  
Message-ID: <3B7405D6.EDFC3DB7@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Don't quote me, David, but I doubt very much if the PL-68 can be found short of someone's junkbox.

That was the standard carbon microphone (T-17) connector in WW2 and was widely used by Collins as their mic connector. I haven't seen a new one in many years.

You might want to think about going into the T4 and changing the mic receptacle to a standard 1/4" three-circuit jack to avoid the problem.

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6  
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe  
Amateur Radio W5YR, in the 55th year and it just keeps getting better!  
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

David Shalita wrote:

>  
> I am trying to do PSK31 with my DRAKE Twins, R4B, T4XB.  
> ON T4XB, what is the part number for the MIC plug that DIGIKEY or MOUSER  
> understands  
> so I can search for a part or two. MIC plug is marked PL-68.  
> PSK31 BUXCOMM docs refers to the plug as a Collins connector.  
> Part is 0.260 inch, smaller and shorter than standard 1/4 dia plug,  
> and has ring and tip circuits for PTT and audio.  
> Thanks and 73, W6MIK, Dave

-----  
Date: Fri, 10 Aug 2001 12:20:47 -0400  
From: "Richard Brummer, K2JQ" <k2jq@bestweb.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [104553] Re: T4XB Mic plug-part number  
Message-ID: <005301c121b8\$6a83b4c0\$1e02b3d8@obvious>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

You might also try a hamfest/flea market. Look for the guys who seem to

specialize in selling connectors, plugs, jacks, etc.

I've seen them there, though I haven't been looking recently.

73,

Dick K2JQ

-----Original Message-----

From: George, W5YR <w5yr@att.net>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Date: Friday, August 10, 2001 12:04 PM

Subject: Re: T4XB Mic plug-part number

>Don't quote me, David, but I doubt very much if the PL-68 can be found  
>short of someone's junkbox.

-----  
Date: Fri, 10 Aug 2001 09:32:39 -0700

From: "Delbert Long" <delbert@gmcompliance.com>

To: <tcurtola@home.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [104554] Re: Manhattan-Style Homebrew Kit

Message-ID: <005701c121ba\$1d2e6ce0\$6d01a8c0@pacbell.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Just wanted to say that I agree! Thanks, George and NJQRP!!!

I was hesitant to try Manhattan Style construction, but now I can't wait to get started.

Del, AD6WE

> Just received my N.J. QRP Club's Manhattan-Style Homebrew Kit in the mail.

> Very nicely put together.

> The included little handbook is itself worth the \$10.00.

>

> Very nicely done George Heron, N2APB!

-----

Date: Fri, 10 Aug 2001 12:48:07 EDT  
From: n5ib@juno.com  
To: qrp-l@Lehigh.edu  
Subject: [104555] FOX - N5IB preliminary log  
Message-ID: <20010810.114144.4631.3.n5ib@juno.com>

The tale of the tape...read it and weep... sure hoped to do better than that..... Just 63, and only 21 in the second hour. Just look at the time gaps...

72  
Jim N5IB

QRP-L 20M Fox Hunt, 08/10/01 UTC, N5IB

| UTC  | Station | RST      | SPC | Name  | Pwr      |
|------|---------|----------|-----|-------|----------|
| 0200 | K5EOA   | 559      | LA  | WAYNE | 5W       |
| 0202 | N0DSP   | 559      | CO  | TOM   | 5W       |
| 0203 | N8VAR   | 449      | OH  | RON   | 4W       |
| 0205 | VA6RF   | 449      | AB  | EARL  | 4W       |
| 0206 | N1TP    | 579      | FL  | TOM   | 5W       |
| 0208 | K4FD    | 559      | FL  | PAUL  | 5W       |
| 0209 | K5DI    | 559      | NM  | KARL  | 5W       |
| 0210 | W8RU    | 599      | MI  | RON   | 5W       |
| 0211 | W9HL    | 559      | IL  | RANDY | 5W       |
| 0214 | N1EU    | 559      | NY  | BARRY | 5W       |
| 0215 | N5TW    | 559      | TX  | TOM   | 5W       |
| 0216 | K5YU    | 559      | TX  | HARV  | 5W       |
| 0217 | VE5RC   | 559      | SK  | BRUCE | 5W       |
| 0218 | NQ7X    | 559      | AZ  | FLOYD | 5W       |
| 0219 | W5XU    | 559      | LA  | DAVE  | 5W       |
| 0220 | W9XU    | 559      | WI  | LON   | 5W       |
| 0221 | K5AAR   | 559      | OK  | DON   | 5W       |
| 0224 | K3NG    | 559      | PA  | GOODY | 5W       |
| 0226 | NK6A    | 559      | CA  | DON   | 5W       |
| 0227 | NK9G    | 559      | WI  | RICK  | 5W       |
| 0228 | WA9TZE  | 559      | WI  | JIM   | 5W       |
| 0228 | N9AW    | 559      | WI  | JERRY | 5W       |
| 0229 | K8CV    | 559      | MI  | WALT  | 5W       |
| 0230 | W5USJ   | esp, err | 339 | TX    | CHUCK 5W |
| 0234 | WE9K    | 559      | WI  | GLEN  | 5W       |
| 0237 | K4MF    | 559      | FL  | GARY  | 5W       |
| 0238 | KI0II   | 559      | CO  | RON   | 1W       |

|      |          |     |    |        |      |  |
|------|----------|-----|----|--------|------|--|
| 0239 | W9UQB/7  | 559 | AX | MIKE   | 5W   |  |
| 0241 | VE3FAA   | 559 | ON | FRED   | 5W   |  |
| 0242 | AJ9U     | 559 | WI | BOB    | 5W   |  |
|      |          |     |    |        |      |  |
| 0243 | AB0CD    | 559 | CO | DICK   | 5W   |  |
| 0244 | AF4PS    | 559 | FL | MAC    | 3W   |  |
| 0246 | K4BYF    | 539 | FL | JACK   | 4W   |  |
| 0248 | N6WG     | 559 | CA | BOB    | 5W   |  |
| 0252 | N2WW     | 559 | CO | LARRY  | 5W   |  |
| 0253 | K0FRP    | 579 | CO | AL     | 5W   |  |
| 0254 | WR50     | 559 | TX | DAVE   | 5W   |  |
| 0255 | W6ABC    | 559 | CA | JACK   | 5W   |  |
| 0256 | VE3EX    | 559 | AB | DAN    | 5W   |  |
| 0257 | KC1FB    | 559 | CT | JIM    | 5W   |  |
|      |          |     |    |        |      |  |
| 0258 | N1FN     | 559 | CO | ET     | 5W   |  |
| 0259 | NX8C     | 559 | MI | NEIL   | 5W   |  |
| 0300 | N5TW     | 559 | TX | TOM    | 5W   |  |
| 0301 | K0EVZ    | 559 | ND | DOC    | 5W   |  |
| 0302 | VE1MT    | 559 | NS | LAYTON | 5W   |  |
| 0304 | KA1DDB   | 559 | MI | MIKE   | 5W   |  |
| 0305 | N4ROA    | 559 | VA | DAN    | 5W   |  |
| 0307 | KJ0C     | 589 | MO | JIM    | 5W   |  |
| 0309 | AA7XA    | 559 | OR | FRANK  | 5W   |  |
| 0310 | W0CH     | 559 | MO | DAVE   | 5W   |  |
|      |          |     |    |        |      |  |
| 0314 | WA7SKY   | 559 | CA | GLENN  | 5W   |  |
| 0317 | N5YFC    | 559 | LA | WAYNE  | 5W   |  |
| 0318 | WA8NTA   | 559 | CO | DICK   | 5W   |  |
| 0320 | N0TK     | 559 | CO | DAN    | 5W   |  |
| 0325 | AG0T     | 559 | ND | TODD   | 5W   |  |
| 0332 | AA7EQ    | 559 | AZ | BOB    | 5W   |  |
| 0332 | KA1LM    | 559 | MA | STEVE  | 5W   |  |
| 0336 | AD6JV    | 559 | CA | BILL   | 5W   |  |
| 0337 | NV4V     | 559 | KY | PETE   | 5W   |  |
| 0243 | K9DI     | 599 | IL | WAYNE  | 100W |  |
|      |          |     |    |        |      |  |
| 0347 | AD4J     | 559 | GA | JIM    | 5W   |  |
| 0349 | AC7CF    | 559 | UT | ANDREW | 5W   |  |
| 0400 | N5IB FOX |     | LA | JIM    | 5W   |  |

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-----  
Date: Fri, 10 Aug 2001 13:09:03 US/Eastern  
From: n2cx@voicenet.com  
To: qrp-1@lehigh.edu  
Cc: david.gauding@bbs.galilei.com, n2cx@voicenet.com  
Subject: [104556] Re: Heads-up - Cabelas 14' Panfish Pole (long)  
Message-ID: <200108101709.f7AH95n149990@nss4.cc.lehigh.edu>

Dave,

Thanks for the timely info! As you may recall, I ordered my pose as soon as I saw your original post. However Cabelas was out of stock and backordered until just about now!

I'm anxiously awaiting its arrival so that I can begin my own trials (and hopefully not tribulations.)

15-1/2 inches is a great size for slipping into a suitcase!

72/73,

Joe E., N2CX

-----  
This message was sent using Voicenet WebMail.  
<http://www.voicenet.com/webmail/>

-----  
Date: Fri, 10 Aug 2001 12:19:07 -0500  
From: "Dennis Payton" <dpayton@fwi.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [104557] 20 Meter VFO Questions  
Message-ID: <000601c121c0\$a958efa0\$1da854d1@locke>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Referencing Wes Hayward's article in Dec. '93 QST, been tinkering around with a 20 meter VFO in my spare time, trying to learn a few things and



seeing how stable I can make it. It's a Hartley and I plan to use it over a wide temperature range.

Although there is a lot of general information out there on building VFO's, I've got a few specific questions.

- 1.) Just how stable can I hope to build a 14 Mhz. VFO with reasonable effort and what are the limiting factors? I've been experimenting with both an air-core and -7 toroid inductor, believe my capacitors are of good quality, and am using two air variables for tuning.
- 2.) Over time, it fluctuates up & down in frequency although the temperature is stable. Is this normal and what causes it?
- 3.) I never see VFO's for the higher HF frequencies. Are there uncontrollable parameters at those frequencies that make it impossible to build a satisfactorily stable VFO or is it just difficult?
- 4.) Since warm-up temperature changes and ambient temperature changes are two totally different things, should I totally ignore warm-up drift and completely focus on compensating drift caused by environmental temperature changes?
- 5.) Although warm-up drift seems to stop after a short time, do the affects of powering up a VFO actually continue for quite some time?
- 6.) Can I achieve better stability by building it for a lower frequency, then doubling or tripling it?
- 7.) Wes says he's never seen any fundamental thermal stability differences between the different types of VFO's. Is there anything else to consider design-wise when attempting to build a stable VFO?
- 8.) I assume parasitic reactances of active devices, and non-linearity of a component's temperature coefficient are my main enemies. Do they vary with frequency, and are they the things that will make it impossible to completely compensate a VFO?

Comments on any of these questions would be appreciated.

Thanks!

Denny Payton, N9JXY  
Auburn, IN

-----

Date: Fri, 10 Aug 2001 10:47:10 -0700  
From: "Bill Jones" <kd7s@psnw.com>  
To: <dpayton@fwi.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [104558] Re: 20 Meter VFO Questions  
Message-ID: <005301c121c4\$7be0a0f0\$9110010a@fresno>  
MIME-Version: 1.0  
Content-Type: text/plain;

charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Denny,

Like you, I have tried to build a stable, 14 MHz VFO. I'm sure it can be done but only under very controlled and perhaps laboratory conditions. A simple way to overcome the stability problems is to use an NE602 with an 11.000 MHz computer crystal on the internal oscillator and feeding a 3.000 MHz VFO to the input. A simple 14.000 MHz bandpass filter at the output cleans up waveform. You can get a very stable, 20 meter VFO this way.

=====

Bill Jones - <><  
Sanger, California

=====

----- Original Message -----

From: "Dennis Payton" <dpayton@fwi.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Friday, August 10, 2001 10:19 AM  
Subject: 20 Meter VFO Questions

> Referencing Wes Hayward's article in Dec. '93 QST, been tinkering around  
> with a 20 meter VFO in my spare time, trying to learn a few things and  
> seeing how stable I can make it. It's a Hartley and I plan to use it over  
a  
> wide temperature range.  
>  
> Although there is a lot of general information out there on building  
VFO's,  
> I've got a few specific questions.  
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> 1.) Just how stable can I hope to build a 14 Mhz. VFO with reasonable  
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> and what are the limiting factors? I've been experimenting with both an  
> air-core and -7 toroid inductor, believe my capacitors are of good  
quality,  
> and am using two air variables for tuning.  
> 2.) Over time, it fluctuates up & down in frequency although the  
temperature  
> is stable. Is this normal and what causes it?  
> 3.) I never see VFO's for the higher HF frequencies. Are there  
> uncontrollable parameters at those frequencies that make it impossible to  
> build a satisfactorily stable VFO or is it just difficult?  
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> changes?

> 5.) Although warm-up drift seems to stop after a short time, do the  
affects  
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> then doubling or tripling it?  
> 7.) Wes says he's never seen any fundamental thermal stability differences  
> between the different types of VFO's. Is there anything else to consider  
> design-wise when attempting to build a stable VFO?  
> 8.) I assume parasitic reactances of active devices, and non-linearity of  
a  
> component's temperature coefficient are my main enemies. Do they vary with  
> frequency, and are they the things that will make it impossible to  
> completely compensate a VFO?  
>  
> Comments on any of these questions would be appreciated.  
>  
> Thanks!  
>  
> Denny Payton, N9JXY  
> Auburn, IN  
>

-----  
Date: Fri, 10 Aug 2001 13:58:47 -0400  
From: "Ed Tanton N4XY" <n4xy@att.net>  
To: <n5em@flash.net>, "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>  
Subject: [104559] RE: Hot Tweezers for SM Work  
Message-ID: <000a01c121c6\$1c047560\$cb0c4d0c@n4xy1>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

I have several sets of these myself since I became enamored with TFE  
wire MANY years ago. Work pretty well. A LOT better than anything not  
heated (except specific-sized strippers) and pretty well on regular wire  
and coax too.

73 Ed Tanton N4XY <n4xy@arrl.net>

Ed Tanton N4XY  
189 Pioneer Trail  
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

LM: ARRL QCWA AMSAT & INDEXA;  
SEDXC NCDXA GACW QRP-ARCI  
OK-QRP QRP-L #758 K2 (FT) #00057

-----  
Date: Fri, 10 Aug 2001 13:49:24 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: dpayton@fwi.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [104560] Re: 20 Meter VFO Questions  
Message-ID: <3B741EA4.A611C4FB@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Dennis,

The reason you never see any VFO's for 14 MHz is that they do drift! It can be controlled to a degree, but not as well as at 3.5 MHz. The primary component of drift, in my experience, is thermal stability. Components drift as they heat up. The heat comes from several sources, the worst being RF heating inside the components.

You can protect against thermal conditions to a degree. I have used a small box to enclose the tank components and also the VFO. It protects against thermal changes due to breezes and convection heating of other components. I often make a PC board enclosure with two compartments, a small one for the tank circuit and a larger one for the rest of the VFO. It helps a lot.

RF heating is still present though the radiation effects are reduced somewhat by the box. Good component selection helps here. Using polystyrene capacitors and air wound coils helps. Here you need to be particularly careful about the tank circuit.

I built a 14 MHz VFO for a proposed magazine article some years ago. The best I could do was a final drift of 10 to 20 Hz after warm up/ I thought this was too much. You may be better off using a heterodyne VFO. Pick a good crystal and build the low frequency VFO using the same techniques outlines above.

73

> 4.) Since warm-up temperature changes and ambient temperature changes are  
> two totally different things, should I totally ignore warm-up drift and  
> completely focus on compensating drift caused by environmental temperature

> changes?  
> 5.) Although warm-up drift seems to stop after a short time, do the affects  
> of powering up a VFO actually continue for quite some time?  
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> component's temperature coefficient are my main enemies. Do they vary with  
> frequency, and are they the things that will make it impossible to  
> completely compensate a VFO?  
>  
> Comments on any of these questions would be appreciated.  
>  
> Thanks!  
>  
> Denny Payton, N9JXY  
> Auburn, IN

-----  
Date: Fri, 10 Aug 2001 11:08:32 -0700  
From: lhlousek <lhlousek@nvhbell.net>  
To: dpayton@fwi.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [104561] Re: 20 Meter VFO Questions  
Message-ID: <012f01c121c7\$776faae0\$650dfea9@nvhbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

Hi Denny,

Very good questions. I would also like to see the answers to them. I do know that if you double or triple an oscillator you will also be doubling or tripling its drift. It is better to heterodyne up in frequency mixing a low freq VFO frequency with a stable xtal oscillator.

Lou W7DZN

-----  
Date: Fri, 10 Aug 2001 13:08:57 -0500  
From: "George, W5YR" <w5yr@att.net>  
To: w6toy@erols.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [104562] Re: 20 Meter VFO Questions

Message-ID: <3B742339.2AB25C5E@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

AS I recall, QST in the mid-40's to early 50's carried a number of articles on the design and construction of highly stable VFO circuits. Maybe one of them was from Bruce!

In ababout 1947 I built a VFO in an old TU-5B tuning unit that was rock stable. The variable caps were very large and heavy and the coil was large wire on a grooved ceramic form. My contribution was just to use those LC components in a fairly conventional Colpitts circuit, etc. It operated on 80 meters and was frequency multiplied up as required in the Millen Exciter that it drove. My point is that large stable L and C components together with very rugged mechanical construction proved to be the right combination for a very stable VFO.

Any memories there, guys?

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6  
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe  
Amateur Radio W5YR, in the 55th year and it just keeps getting better!  
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

Bruce Muscolino wrote:

> I built a 14 mHz VFO for a proposed magazine article some years ago.  
> The best I could do was a final drift of 10 to 20 Hz after warm up/ I  
> thought this was too much. You may be better off using a heterodyne  
> VFO. Pick a good crystal and build the low frequency VFO using the same  
> techniques outlines above.

-----

Date: Fri, 10 Aug 2001 18:11:40 +0000  
From: "Tom Dufresne" <tdufres@hotmail.com>  
To: n2cx@voicenet.com, qrp-l@Lehigh.EDU  
Subject: [104563] Re: Heads-up - Cabelas 14' Panfish Pole  
Message-ID: <F20EcvJY4WocwAQq12L00005eaf@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Dave and Joe et al:

Interesting discussion on the Black Widow pole as a SLV. I have the 20 foot version(Cabella's) and am having some probs of my own. I have epoxied the pole into a PVC base, and also mounted radiator and connection for radials

in the PVC base, along with the connection for the coax cable. The PVC base is a contraption that allows me to store the big spike in the base when I'm not using the antenna. Pretty cool, I think. I am using 3 radiators as per original SLV article (<http://www.fix.net/~jparker/slvt.html>) and was having a heck of a time beating a 2:1 SWR. I did increase the size of my radiator to about 16 feet. I am using a #22ga insulated solid copper wire. I fastened the wire to the eyelet with a steel safety pin. (Bad idea, huh?) The coil is an original SLV coil, the big one. I'm gonna try again this weekend. I will get rid of the safety pin, what should I replace it with?

Any other ideas on what may work better? I'm using a cheapo R/S SWR meter and a HW-8, output 1-2 watts.

Tom

KC0GXX

---

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---

Date: Fri, 10 Aug 2001 10:12:42 -0800  
From: Jim Larsen AL7FS <AL7FS@pobox.alaska.net>  
To: "qrp-1@lehigh.edu" <qrp-1@lehigh.edu>  
Subject: [104564] Alaska Propagation: AL7FS  
Message-ID: <3B74241A.525591AF@pobox.alaska.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Greetings from Alaska,

I played with the Fox last night and was able to work Doc just fine but the biggest surprise was how magnificently loud all of the hounds were. Why oh why couldn't it have been like that a week before. Wondering what was different, I pulled up the numbers from the e-alert and much to my surprise, except for the SFI, they were not all that good (see below). That means I cannot rely on the data to give me a clue as to when it will be a good night like you can in the lower 48. Perhaps the best answer is to get on and operate more and I will hit more good nights.

I would have expected the K=3 and Aurora Level=6 to preclude a good night. Wrong. It was great. Signals everywhere and strong and clear. It was a veritable roar of the hounds.

On the plus side, I know know that it is propagation and not my rig and antenna system that are messed up most of the time. :-)

Live and learn.

73, Jim

--

Jim Larsen, AL7FS, Anchorage, Alaska  
(BP51cc) - 61.101 North, 149.824 West  
mailto:al7fs@arrl.net - <http://www.qsl.net/al7fs/>

the numbers:

e-alert 08.10 00:15 UTC

SFI:163 | A:11 up from 10 | K:3 up from 2 at 0000 on 10 August.

SAF: low to moderate, GMF: quiet to unsettled

Magnetic K-Index of 4 Warning valid from 9 Aug 2001 0455 to 1500 UT

Aurora Level: 6

Solar Wind: 384.6 km/s at 8.2 protons/cm<sup>3</sup>

-----  
Date: Fri, 10 Aug 2001 14:12:11 -0400 (EDT)  
From: wb4mnf@atl.org  
To: qrp-1@lehigh.edu  
Subject: [104565] WTS NOS Amphenol UG/603U connectors (RG-59, solder type N connectors)  
Message-ID: <200108101812.0AA06773@hat-trick.atl.org>  
Content-Type: text

I have more of these than I need.  
They are quality Amphenol 226 spec N connectors.  
Solder type for RG-59.  
Cheap brands sell for \$2.65/each. Good ones like these are usually over \$6 in quantities of 10.

Offered as lots of 10 for \$20 including USA postage.

[http://199.184.215.33/catalog/view\\_item.php?id=122](http://199.184.215.33/catalog/view_item.php?id=122)

to see what they look like.

Thanks,

-bob

-----  
Date: Fri, 10 Aug 2001 12:19:48 -0600 (MDT)



From: "Paul Harden, NA5N" <na5n@rt66.com>  
To: Dennis Payton <dpayton@fwi.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [104566] Re: 20 Meter VFO Questions  
Message-ID: <Pine.SUN.4.10.10108101155090.2218-100000@shell.rt66.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'll answer a few of these.

On Fri, 10 Aug 2001, Dennis Payton wrote:

> 1.) Just how stable can I hope to build a 14 Mhz. VFO with reasonable effort  
> and what are the limiting factors? I've been experimenting with both an  
> air-core and -7 toroid inductor, believe my capacitors are of good quality,  
> and am using two air variables for tuning.

Temperature variations are one of the main culprits above about 10MHz. Every component will behave slightly different over even a fairly narrow temperature range. Your inductor and main tuning capacitors will vary with temperature. From your above description, perhaps one of your largest contributors are your two air variables. Variable caps and trim caps often have lousy temperature coefficients.

The air temperature these components are exposed to are only part of the equation. The dc currents and RF voltages on these components are also generating heat, which is very difficult to measure even in a lab environment.

> 3.) I never see VFO's for the higher HF frequencies. Are there  
> uncontrollable parameters at those frequencies that make it impossible to  
> build a satisfactorily stable VFO or is it just difficult?

It is difficult to achieve a very stable VFO at the higher HF frequencies "open loop" (without some external control circuitry, such as a PLL). The capacitances in your oscillator transistor (base-emitter, base-collector) start playing a larger role and must be taken into account. These will vary with base and collector current, which presummably are constantly changing (if it's oscillating like you want!). But an often overlooked problem is repeatability. If you manage to build a fairly stable VFO at 14MHz and publish the circuit, it does not guarantee others building the circuit will achieve the same results. This is due to the differences in the transistors junction capacitances, which will vary from transistor to transistor.

> 4.) Since warm-up temperature changes and ambient temperature changes are  
> two totally different things, should I totally ignore warm-up drift and  
> completely focus on compensating drift caused by environmental temperature

> changes?

Once the warmup drift has been determined, say 10-15 minutes, then stability should be evaluated over "the long term."

> 6.) Can I achieve better stability by building it for a lower frequency,  
> then doubling or tripling it?

Not really, because your frequency drift will be multiplied as well. For example, say you are attempting to keep your 14MHz VFO within 150Hz long term (30 minute drift or more). Building a 3.5MHz VFO you might get 20-30Hz drift. Multiply it up by 4 to 14MHz, your 20-30Hz drift now becomes 80-120Hz drift, or pretty much what your 14MHz VFO was experiencing in the first place.

> 7.) Wes says he's never seen any fundamental thermal stability differences  
> between the different types of VFO's. Is there anything else to consider  
> design-wise when attempting to build a stable VFO?

I would disagree with this statement only to the extent that a well built series-tuned VFO generally will have better overall long term drift performance over a parallel tuned VFO.

> 8.) I assume parasitic reactances of active devices, and non-linearity of a  
> component's temperature coefficient are my main enemies. Do they vary with  
> frequency, and are they the things that will make it impossible to  
> completely compensate a VFO?

This is pretty much explained above about the effects the transistors capacitances (and other parameters) have at higher frequencies. Yes, most of these parameters are frequency dependent. Often data sheets will give some of these input and output capacitances and impedances at ONE given frequency. You merely calculate  $X_c$  for the frequency of interest to see how these capacitances start loading down the transistor and the circuit the higher the frequency you go.

> Comments on any of these questions would be appreciated.  
> Denny Payton, N9JXY

These are all excellent questions, and most deal with the basics of oscillator design that I'm sure many on the group will find interesting, and others still that have plenty to contribute to this discussion from their amateur or professional experience. Likewise, let us know how your building the 14MHz comes along and what your experiences are.

I agree with Bill Jones, KD7S, that probably the best approach, bang for the buck, is to build a very stable low frequency oscillator and mix it with a crystal oscillator to form the desired frequency. This

simple frequency synthesis approach does require some added circuitry, a mixer and filtering, but probably gives you the best performance for the extra effort. The next step is a full blown DDS/PLL approach.

72 and GL, Paul NA5N

-----  
Date: Fri, 10 Aug 2001 14:29:51 -0400  
From: Al Scanandoah <k2zn@rochester.rr.com>  
To: davidr@cnmnetwork.com, Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [104567] Re: T4XB Mic plug-part number  
Message-ID: <3B74281F.DA2A313E@rochester.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

The part you're looking for is a Switchcraft S230 series, 0.206" dia. phone plug. Newark Electronics carries them.

73 - Al, K2ZN

David Shalita wrote:

>  
> I am trying to do PSK31 with my DRAKE Twins, R4B, T4XB.  
> ON T4XB, what is the part number for the MIC plug that DIGIKEY or MOUSER  
> understands  
> so I can search for a part or two. MIC plug is marked PL-68.  
> PSK31 BUXCOMM docs refers to the plug as a Collins connector.  
> Part is 0.260 inch, smaller and shorter than standard 1/4 dia plug,  
> and has ring and tip circuits for PTT and audio.  
> Thanks and 73, W6MIK, Dave

-----  
Date: Fri, 10 Aug 2001 13:34:43 -0500  
From: "Rob Matherly" <kc0bom@yahoo.com>  
To: <qrp-l@lehigh.edu>  
Subject: [104568] Ameco AC-1  
Message-ID: <010901c121cb\$24dc9c80\$2d11a541@intern01>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello all;

With all this talk of the Ameco AC-1 I figured I'd mention I've got a new homebrewing page at my website with the schematics, including the parts list and alternate power supply. Just go to <http://www.geocities.com/kc0bom/hamradio> and click on "Homebrew Projects".

I'm also in the middle of re-designing my web page, so if something isn't displaying properly or isn't showing up, there's your reason. Please let me know if a problem pops up so I can fix it!

Tnx es 72/73  
Rob, kc0bom

```
=====
FPQrp #330; Qrp-L #2346; Live-Wire #442; ICQ #114690148
=====
I hate Jeff Gordon and the New York Yankees and I'm proud of it!
=====
Visit my ham radio / Mystery Science Theater 3000 website!
http://www.geocities.com/kc0bom
Go see it today!
=====
Are you a ham near the Lake Rathbun Iowa area? Join the club!
http://clubs.yahoo.com/clubs/rathbunareahams
=====
Use Drake ham radio equipment? Check out my group!
http://groups.yahoo.com/group/drake-radio-operators
=====
```

-----  
Do You Yahoo!?  
Get your free @yahoo.com address at <http://mail.yahoo.com>

-----  
Date: Fri, 10 Aug 2001 15:04:55 -0400  
From: "Mark J. Dulcey" <[mark@buttery.org](mailto:mark@buttery.org)>  
To: [qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)  
Subject: [104569] Trials and tribulations of Bumblebee #6  
Message-ID: <3B743057.5871F9EA@buttery.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I wrote up a report (with pictures) of my efforts in the Flight of the Bumblebees. I submitted the link in my soapbox comments, but it didn't

make it into the August issue of the ARS Sojourner, so I thought I'd post the link here and let people have a look...

<http://mail.buttery.org/mark/leisure/bumblebee.html>

Warning: the total size of the page, including the pictures, is about 300K, so those of you with slow connections will need to be patient. I would estimate 1-2 minutes over a dialup link.

Mark Dulcey KE1L

-----  
Date: Fri, 10 Aug 2001 13:59:58 -0500  
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>  
To: "'tdufres@hotmail.com'" <tdufres@hotmail.com>, Low Power Amateur Radio Discussion <grp-l@lehigh.edu>  
Subject: [104570] Black Widow filshing pole  
Message-ID:  
<E78D8A9D6762D411B5440008C791D4AA04A49DAE@dfwex03.allegiancetelecom.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Leave the saftety pin where it is, Tom (At the top of the pole, right?). I'd add a couple more radials if you can, however.....

Karl K - W8TIF  
McKinney, Texas

-----Original Message-----

From: Tom Dufresne [SMTP:tdufres@hotmail.com]  
Sent: Friday, August 10, 2001 1:12 PM  
To: Low Power Amateur Radio Discussion  
Subject: Re: Heads-up - Cabelas 14' Panfish Pole

Dave and Joe et al:

Interesting discussion on the Black Widow pole as a SLV. I have the 20 foot version(Cabella's) and am having some probs of my own. I have epoxied the pole into a PVC base, and also mounted radiator and connection for radials in the PVC base, along with the connection for the coax cable. The PVC base is a contraption that allows me to store the big spike in the base when I'm not using the antenna. Pretty cool, I think. I am using 3 radiators as per original SLV article (<http://www.fix.net/~jparker/slvt.html> <<http://www.fix.net/~jparker/slvt.html>> ) and was having a heck of a time beating a 2:1 SWR. I did increase the size of my radiator to about 16 feet. I am using a #22ga insulated solid copper wire. I fastened the wire to the

eyelet with a steel safety pin. (Bad idea, huh?)The coil is an original SLV coil, the big one. I'm gonna try again this weekend. I will get rid of the safety pin, what should I replace it with? Any other ideas on what may work better? I'm using a cheapo R/S SWR meter and a HW-8, output 1-2 watts.

Tom  
KC0GXX

-----  
Date: Fri, 10 Aug 2001 20:06:52 +0100  
From: "G3MFJ" <g3mfj@btinternet.com>  
To: <lhhousek@nvtbell.net>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [104571] Re: Source for 88 mh toroid?  
Message-ID: <000201c121d1\$0d6e52e0\$02010080@graham>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi  
The G-QRP Club has some - 88mH at GBP 1.0 each plus postage (GBP0.50) anywhere in the world. I reckon that's around \$2.10 inclusive.

See Sprat for details or e-mail me at g3mfj@gqrp.com

72/3  
Graham  
G3MFJ

Subject: Re: Source for 88 mh toroid?

> Hi Bill,  
>  
> I am looking for the same and considering winding my own on a Amidon  
> PC-1107-77 pot core and bobbin. Something like 240 turns of # 36 or #38  
> wire looks like it would work. Let me know if you find a source  
> otherwise its time to get out the electric drill and counter.  
>  
> Lou W7DZN  
>

-----  
Date: Fri, 10 Aug 2001 12:45:32 -0600  
From: William R Colbert <w5xe@juno.com>

To: davidr@cnmnetwork.com, qrp-1@lehigh.edu  
Subject: [104572] Re: T4XB Mic plug-part number  
Message-ID: <20010810.132931.-280163.0.w5xe@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

You might also try a local aircraft radio repair facility,  
or a store that sells parts and radios for the aircraft  
market, as that mike plug is a standard or was a  
standard for aircraft radio mikes.

73

Ray

It is better to be thought of as a fool than to  
open your mouth and remove all doubt.

Ray Colbert, W5XE, 00TC#3618, SOWP#1064M NARTE-NCT2R SOC#78  
MI-QRP 379QRP-ARCI 5784 NORCAL 1110, El Paso, (FAR WEST) TEXAS

-----  
Date: Fri, 10 Aug 2001 15:28:10 -0400  
From: Bill Coleman <aa4lr@arrl.net>  
To: <lourette@localnet.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [104573] Re: Antenna feed line length?  
Message-ID: <1010710152811.PAA04986@gate.iterated.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

On 8/4/01 5:42 PM, Lourette at lourette@localnet.com wrote:

>My first 40M antenna is a Half square. I seem to be doing well regionally  
>with it. I am on 7.100 - 7.140. I can't hear to much at night due to  
>foreign broadcasts.

>

>My question is this. I am feeding it with 150feet of feed line. Does the  
>feed line have to be a multiple of 1/2 wave?

No, the feedline doesn't have to be a multiple of 1/2 wave. It just has  
to be long enough to reach from the antenna to the rig.

One question -- what sort of feedline are you using? Small-diameter coax  
has a moderate amount of loss at 7 MHz in excess of 100 feet. You might  
consider using RG-8 or RG-213 if you aren't already. Belden 9913 is  
probably way overkill for 7 MHz.

Bill Coleman, AA4LR, PP-ASEL            Mail: aa4lr@arrl.net  
Quote: "Not within a thousand years will man ever fly!"  
      -- Wilbur Wright, 1901

-----  
Date: Fri, 10 Aug 2001 14:27:21 -0500  
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>  
To: Low Power Amateur Radio Discussion <grp-l@lehigh.edu>  
Subject: [104574] Stable 20 Meter VFO Questions  
Message-ID:  
<E78D8A9D6762D411B5440008C791D4AA04A49DB0@dfwex03.allegiancetelecom.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
      charset="iso-8859-1"

You forgot to tell them, George, that the TU-B "tuning unit"  
came from the BC-375 transmitter of WW II fame. Some of  
those are still available, by the way at swapmeets, and I think-  
from Fair Radio Sales in Lima, Ohio.

You are absolutely right though, that LARGE, STABLE  
"L" and "C" components are the fundamental requirements of  
a stable variable-frequency oscillator!

Rule One: You buy "Q" by the cubic foot.

Rule Two: There's no free lunch, and you can't defy the laws  
of physics.

Karl K - W8TIF  
McKinney, Texas

-----Original Message-----

From: George, W5YR [SMTP:w5yr@att.net]  
Sent: Friday, August 10, 2001 1:09 PM  
To: Low Power Amateur Radio Discussion  
Subject: Re: 20 Meter VFO Questions

AS I recall, QST in the mid-40's to early 50's carried a number of articles  
on the design and construction of highly stable VFO circuits. Maybe one of  
them was from Bruce!

In ababout 1947 I built a VFO in an old TU-5B tuning unit that was rock  
stable. The variable caps were very large and heavy and the coil was large



wire on a grooved ceramic form. My contribution was just to use those LC components in a fairly conventional Colpitts circuit, etc. It operated on 80 meters and was frequency multiplied up as required in the Millen Exciter that it drove. My point is that large stable L and C components together with very rugged mechanical construction proved to be the right combination for a very stable VFO.

Any memories there, guys?

72/73, George W5YR - the Yellow Rose of Texas

-----  
Date: Fri, 10 Aug 2001 15:41:02 -0400  
From: adamvaz@palm.net (Adam Vazquez)  
To: davidr@cnmnetwork.com, qrp-1@Lehigh.EDU  
Subject: [104575] Re: PSK31 trouble - PC Noise  
Message-ID: <GHVA0E00.U4@mo120usjc.palm.net>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello de Adam Kb2Jpd

Most RFI will be coming out of the keyboard, monitor, and parallel printer ports.

Ground your case and install ferrite chokes on your cables. If most of the RFI disappears when you unplug the printer cable, consider buying a double-shielded cable and grounding both ends or disconnect the cable.

73 Adam

davidr@cnmnetwork.com wrote on 8/10/01 9:28 am:

>Hi,  
>  
>I am attempting to run  
>PSK31 at home with DRAKE  
>TWIN TX and RX.  
>My first attempt is in  
>receive only mode running  
>winwarbler on PC using  
>a resonant N5FS style LOOP  
>ant cut for 20M.  
>  
>PC display acts like it is  
>mostly noise and signals  
>appear VERY weak  
>with lots of QSB.  
>

>PC noise seems to  
>overwhelm and possibly  
>desence the DRAKE RX. I hear  
>TTY at 14.070 when PC is off.  
>I hear squeals, whistles, etc  
>when PC is  
>on that were not heard when  
>PC was off. PC is less than 6  
>feet from RX.  
>  
>I sure can use some advise to  
>suppress some of the PC and  
>monitor added  
>noise.  
>Thanks for hints, 73,  
>W6MIK, Dave

-----  
Date: Fri, 10 Aug 2001 15:56:28 -0400  
From: David Newkirk <dpnewkirk@home.com>  
To: qrp-l@Lehigh.EDU  
Subject: [104576] Re: 20 Meter VFO Questions  
Message-ID: <3B743C6C.17D245AB@home.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Dennis, N9JXY, wrote:

[deletions]

"1.) Just how stable can I hope to build a 14 Mhz. VFO with reasonable effort and what are the limiting factors? I've been experimenting with both an air-core and -7 toroid inductor, believe my capacitors are of good quality, and am using two air variables for tuning."

For the 1988 ARRL Handbook for Radio Amateurs, I built and wrote up "A Band Imaging Receiver for 10 and 18 MHz." It used a 14.06- to 14.16-MHz VFO to mix the 30- and 17-meter bands to a 4-MHz IF; the VFO was an MFP102 JFET Hartley oscillator driving a 40673 dual-gate MOSFET buffer. The oscillator drain supply was 7 V, regulated with an LM317L; the buffer amplifier operated at 12 V, regulated. Concerning its stability, I wrote, "Despite the relatively high LO operating frequency, stability is good. Measured drift of the point-to-point-wired prototype oscillator was -530 Hz in the 45-minute period after turn-on, 460 Hz of which

occurred in the first ten minutes. Over the next three hours, this oscillator drifted approximately  $\pm 20$  Hz. Stability was even better with the circuit rebuilt on an etched circuit board: Drift for the ten minutes after turn-on was only  $\pm 256$  Hz. The key to this stability is the use of NP0 (C0G) ceramic units for all fixed capacitors associated with the gate and source of [the JFET]... Oscillator stability is further improved by the use of a three-terminal regulator to stabilize [the JFET]'s drain supply, and by enclosing L0 and buffer in a shield box to slow the effect of changes in ambient air temperature [and humidity]." I should add that the oscillator inductor was an air-core coil consisting of a piece of Barker and Williamson "Miniductor" stock, separated from other objects on all sides by at least its diameter, and the circuit's tuning and trimmer capacitances were air-dielectric units.

Warm-up drift doesn't bother me much, BTW; I'm happy to let an oscillator run to get to its long-term stability characteristics.

I took no special measures to make this oscillator drift-free. That said, three more things are worth adding: (1) Zener diodes should be avoided in stabilizing an LC oscillator's supply for two reasons: Most are relatively unstable with temperature (and many oscillators can be tuned somewhat by varying their supply voltages) and all add considerable noise to the voltage they regulate. (This noise issue isn't so important unless you're after low phase noise.) (2) If you use a gate-clamping diode on your JFET, it can contribute to frequency instability if it's packaged in such a way as to allow variable ambient light and/or heat to fall on its junction. Diodes are photosensitive, and a clear-glass-packaged diode used as a VFO gate clamper can almost be used to provide slow FSK if illuminated by a keyed light source. (3) Because this VFO/buffer combination was not part of a transmitter, it operated with a reasonably constant load. Had I keyed a stage or stages following its buffer for Morse, I might have discovered that additional buffering would have been necessary to maintain insensitivity to load variations resulting from keying.

The band-imaging receiver appeared in the Handbook through at least the 1992 edition, which I'm looking at as I type. Circuit boards for its modules, including the VFO, are available from FAR Circuits, I think.

[deletions]

"6.) Can I achieve better stability by building it for a lower frequency, then doubling or tripling it?"

Maybe. At HF, the only way to know for sure is to compare the stability achievable with your best shot at building a VFO at the desired frequency with the stability of the multiplied signal from your best

shot at building a VFO for a subharmonic. In receiving applications that don't involve variable loads, I'd expect that you should be able to build a good VFO up through at least 15 MHz--assuming air-dielectric tuning and trimmer capacitors; good, low-loss shielding (copper-clad circuit board works fine; don't use steel even if you're using a toroidal coil); and an air-core inductor separated by at least its diameter from the shield box and other circuit components.

[deletions]

BTW, I \*highly\* recommend the Oscillators chapter of all ARRL Handbooks from 1995 to now as a reference on oscillator facts and issues. Dave Stockton, GM4ZNX, of HP-Scotland, wrote it, and I polished it (very little) for publication. It covers all of these issues and more, and is (in my opinion) a milestone in amateur radio literature on oscillators.

73,

Dave Newkirk, W9VES  
dpnewkirk@home.com

-----  
Date: Fri, 10 Aug 2001 15:03:07 -0500  
From: "George, W5YR" <w5yr@att.net>  
To: Karl.Kanalz@allegiancetelecom.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [104577] Re: Stable 20 Meter VFO Questions  
Message-ID: <3B743DFB.2B08EB6A@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Gee, Karl, doesn't everybody know what a TU-5B tuning unit is? <:}

I still have some variables from tuning units in the "junk box(es)."

"Them were the days . . ."

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6  
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe  
Amateur Radio W5YR, in the 55th year and it just keeps getting better!  
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

"Kanalz, Karl" wrote:

>

> You forgot to tell them, George, that the TU-B "tuning unit"

> came from the BC-375 transmitter of WW II fame. Some of  
> those are still available, by the way at swapmeets, and I think-  
> from Fair Radio Sales in Lima, Ohio.  
>  
> You are absolutely right though, that LARGE, STABLE  
> "L" and "C" components are the fundamental requirements of  
> a stable variable-frequency oscillator!  
>  
> Rule One: You buy "Q" by the cubic foot.  
>  
> Rule Two: There's no free lunch, and you can't defy the laws  
> of physics.

-----  
Date: Fri, 10 Aug 2001 16:07:24 -0400  
From: adamvaz@palm.net (Adam Vazquez)  
To: qrp-l@Lehigh.EDU  
Subject: [104578] Best Method Securing MFJ 33ft Mast?  
Message-ID: <GHVBWC00.BB2@mo120usjc.palm.net>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello de Adam Kb2Jpd

I got my hands on the MFJ 33ft Mast and thought I could use my heavy  
duty tripod when I was HFing at Bear Mountain. The bottom diameter is  
too wide for the tripod.

Any insider tips to secure the mast vertically? I usually set up solo.

73 Kb2Jpd

-----  
Date: Fri, 10 Aug 2001 16:52:31 EDT  
From: W2SH@aol.com  
To: qrp-l@lehigh.edu  
Cc: david@cnmnetwork.com  
Subject: [104579] RE: T4XB Mic Plug-Part Number  
Message-ID: <6e.e4a732f.28a5a38f@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Page 12 of the current Fair Radio catalog, [www.fairradio.com](http://www.fairradio.com), shows a NOS  
M-52 microphone terminated with a PL-68 plug. Price is \$8.00. Same page  
also carries the matching JK-33 jacks, used at two for a buck.

72/73,

Charles, W2SH

-----  
Date: Fri, 10 Aug 2001 15:11:28 -0600  
From: "Francis Callahan" <colcal@srv.net>  
To: <QRP-L@Lehigh.edu>  
Subject: [104580] FS QRP + MFJ 971 tunner  
Message-ID: <000f01c121e1\$06a1a6a0\$69df070c@callahan>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

For sale as pkg QRP+ Revision #3 with mike power cord manual MFJ 971 tunner  
with manual \$425.00 KF7ET Cal reply direct or 208 357 7431 thanmks for BW

-----  
Date: Fri, 10 Aug 2001 17:21:29 -0400  
From: "Brian B. Riley, N1BQ" <n1bq@wulfdn.org>  
To: <n0bs@msn.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [104581] RE: Power radiated from a dummy load  
Message-ID: <LPBBJAGIPFHKPJENAKLOIEJKFIAA.n1bq@wulfdn.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I can weigh in on both sides of this idea ....

(1) as a very young ham with my 2m phone Novice privileges I was  
tuning up a converted SCR-522 to a dummy load consisting of 100 feet of  
RG58 into a 100 watt light bulb in my basement on Long Island. I worked  
a guy in the next town!

(2) This past winter when we did the PSK/Warbler demo for the QRP Forum  
at the Milton (VT) Hamfest I had a Rat Shack 5 watt heat sinked dummy  
load attached to my metal cased Warbler and could not hear or be heard  
by another Warbler 12 feet away!

72 de brian, n1bq

> -----Original Message-----  
> From: n0bs  
> Sent: Thursday, August 02, 2001 13:05 PM  
> To: Low Power Amateur Radio Discussion  
> Subject: Power radiated from a dummy load  
>  
>  
> About 2 years ago I "sponsored" a one night event  
> for the QRP-L group that I called "Dummy Load Night".  
> This event was spawned by the numerous anecdotal  
> reports of people accidentally making contacts while  
> on their dummy load instead of their antenna.  
> For 2 hours one night, the participants tried making  
> QRP contacts on 40m while purposely connected to a  
> dummy load.  
> As I recall, there were about 20 or so participants,  
> and 3 or 4 actually made contacts. Ed Loranger, WE6W  
> was the "winner" with 3 contacts !  
> A number of notable active participants on this list  
> thought this was really a pretty dumb idea :)  
> I didn't disagree completely, however, I did think it  
> was an interesting experiment, that turned out to be  
> successful, and did create some interesting discussion.  
> I used my memory keyer and called cq endlessly while  
> simultaneously working dx on 20m that night. I was  
> not successful in making a DL contact.  
> Interesting that this thread has come back around!  
> 73, Tom Moll N BS

-----  
Date: Fri, 10 Aug 2001 17:01:30 +0000  
From: "Steven Weber" <kd1jv@moose.ncia.net>  
To: qrp-l@lehigh.edu  
Subject: [104582] Re: 20 Meter VFO Questions  
Message-ID: <200108102132.f7ALWM114679@wolf.ncia.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

> simple way to overcome the stability problems is to use an NE602 with an  
> 11.000 MHz computer crystal on the internal oscillator and feeding a 3.000  
> MHz VFO to the input. A simple 14.000 MHz bandpass filter at the output  
> cleans up waveform. You can get a very stable, 20 meter VFO this way.

As Bill suggests, this is definatly the best way to go. If you plan on using the ocillator for something practical, like a transmitter, it also has the advantage of isolating the VFO from the Tx frequency, so there is less chance of pulling and other nasty side effects.

You can futher enhance the circuit by making the xtal osc a VXO. This can allow you to shift the frequency durring Rx, or if you make a DC transceiver, can be used as RIT.

One final advantage of this technique is you can build an "any band" transmitter. Simply mix and match the common xtal frequencies with the VFO frequency to produce a product on the band of interest, keeping the VFO in the 3-4 Mhz region, and of course, adjust the BPF and LPF as needed.

I've been meaning to design a circuit board for a "univeral, any band transmitter", but obviously haven't gotten around to it yet. Maybe someone can beat me to it?

72,

Steve, KD1JV in the White Mountains of New Hampshire

"Melt Solder"

<http://www.qsl.net/kd1jv/index.html>

-----  
Date: Fri, 10 Aug 2001 16:29:32 -0500  
From: David Gauding <david.gauding@bbs.galilei.com>  
To: qrp-l@lehigh.edu  
Subject: [104583] Re: Best Method Securing MFJ 33ft Mast?  
Message-ID: <5.1.0.14.0.20010810161838.02664030@bbs.galilei.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 04:07 PM 8/10/01 -0400, you wrote:

>I got my hands on the MFJ 33ft Mast and thought I could use my heavy  
>duty tripod when I was HFing at Bear Mountain. The bottom diameter is  
>too wide for the tripod.

>73 Kb2Jpd

Hello Adam,

The three point guying system used by the Random Wire Vertical (QQ, January 1995 or the late G3YCC's website) will work well with the MFJ pole. While I have not done so the various homebrew assemblies should adapt pretty easily.



I run the all-aluminum RWV as high as 42-1/2' with the single three-point mounting base. With that in mind it should handle the 33' MFJ product easily.

You might also look at the St. Louis Pocket Vertical (QRPP, Spring 2000). Same basic guying concept as the RWV but lighter-duty and maybe a little easier to fabricate.

Hope this is helpful for you.

Regards,

de Dave, NF0R      nf0r@slacc.com

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Date: Fri, 10 Aug 2001 16:54:32 -0500  
From: George Franklin <w0av@juno.com>  
To: w5yr@att.net  
Cc: qrp-l@Lehigh.EDU  
Subject: [104584] Re: Stable 20 Meter VFO Questions  
Message-ID: <20010810.165433.-1876483.0.w0av@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi George & Gangue,

You might be interested in the so-called Huff & Puff oscillator described in SPRAT and other European ham magazines a year or two ago. It uses a self-correcting circuit to virtually eliminate drift and is not complicated to build and set-up.

It is extremely stable; far better than run-of-the mill oscillators, according to numerous testimonials.

Sorry, but I don't have any further information at hand.

72 de George/W0AV

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Date: Fri, 10 Aug 2001 18:36:08 EDT  
From: ARDUJENSKI@aol.com  
To: adamvaz@palm.net, qrp-1@lehigh.edu  
Subject: [104585] Re: Best Method Securing MFJ 33ft Mast?  
Message-ID: <11.18870b06.28a5bbd8@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

An easy solution is ground mount and use three guy lines attached above the second joint or even first joint. Use a piece of tye-wrap around pole to attach guy lines. Other methods put stress on plastic and can cause it to crack in winds

FOR HARD SURFACES: You can bungy lower section to a fence post or similar stationary object. Additionally you can have a piece of plywood about 1ft by 3ft and attach a pipe flange. Install a short piece of pipe (about 2 ft and just slip pole over pipe. Drive a car over the other end of the plywood

Alan KB7MBI

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Date: Fri, 10 Aug 2001 15:40:14 -0700 (PDT)  
From: Blair Goodlin <bgoodlinjr@yahoo.com>  
To: qrp-1@Lehigh.EDU  
Subject: [104586] Poqet Plus  
Message-ID: <20010810224014.80898.qmail@web11306.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Does anyone have a Poqet Plus they're willing to sell, or know where I can buy one (besides CA Digital). The NJQRP page lists "Disks N Data" as another seller, and also reports that he's out of stock, but the email address given on that page doesn't work. Any advice would be greatly appreciated.

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Do You Yahoo!?  
Send instant messages & get email alerts with Yahoo! Messenger.  
<http://im.yahoo.com/>  
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Date: Fri, 10 Aug 2001 16:51:11 -0600 (MDT)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: <qrp-l@lehigh.edu>  
Subject: [104587] All band dipole work  
Message-ID: <Pine.LNX.4.33.0108101644300.2489-100000@localhost.localdomain>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

My back pack dipole with manual switches to make it cover 40 through 10 meters is under test and I made some errors that stopped testing till tomorrow. When I started the test all but 17 meters, the shortest element were too long.

I learned that when I subtracted 2 numbers I got the wrong answer using a calculator! So am going to re-do all calculations and then compare to what I used.

Connectors on #26 wire fall off real easy. I used them to attach the coax to the center of the dipole. Both broke off. So re-design there.

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Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

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Date: Fri, 10 Aug 2001 17:52:43 -0500  
From: "Brian Murrey" <brian@iquest.net>  
To: "pigs" <fpqrp-l@mpna.com>, "QRP-L" <qrp-l@lehigh.edu>  
Subject: [104588] New QQ is out!!  
Message-ID: <000d01c121ef\$2c0c79c0\$9a302bd1@iquest.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

The new ARCI QQ is out and it's the best issue ever!!

The picture of Ed Hare, on his knees, praying....with the Flying Pigs group standing behind him is hilarious!

Craig has done it again!!

Thanks QRP ARCI!

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KB9BVN NORCAL 2792 FISTS 5695 QRP-L 1540 QRP-ARCI 10223
  39.558 N   86.095 W   Johnson Co., Indiana
  GRID: EM69WN - Ten Tec Scout - Attic Dipole - 5w
  Member of the American Radio Relay League - SOC #400
  FISTS Century Club #764/#24 QRP - Flying PIG QRP #-57
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End of QRP-L Digest 2277

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